

Cumulative Author Index

All authors of papers published in this volume are listed alphabetically. Full titles are included in each first author's entry. For Rapid Communications an R precedes the page number. The letters (C) and (BR) following the page number indicate that a paper is a Comment or a Brief Report, respectively. References with (E) are to Errata.

- Abbott, D.** — (see Kirch, K.) A 59, 3375
Abraham, N. B. — (see Masoller, C.) A 59, 3021
Achiba, Y. — (see Sanderson, J. H.) A 59, 4817(BR)
Achiwa, Norio — (see Hino, Masahiro) A 59, 2261
Achler, M. — (see Spielberger, L.) A 59, 371
Adam, P. — (see Kis, Z.) A 59, R39
Adhikari, Sadhan K. and P. K. Biswas — Positronium–hydrogen-atom scattering in a five-state model. A 59, 2058
 —, **P. K. Biswas, and R. A. Sultanov** — Low-energy quenching of positronium by helium. A 59, 4829(BR)
 — (see Biswas, P. K.) A 59, 363
Adkins, Gregory S. and Eric D. Pfahl — Order- α radiative correction to the rate for parapositronium decay to four photons. A 59, R915
Agarwal, G. S. — Mesoscopic superpositions of states: Approach to classicality and diagonalization in a coherent state basis. A 59, 3071(BR)
 — (see Banerji, J.) A 59, 4777
 — (see Boyd, Robert W.) A 59, R2587
 — (see Kim, M. S.) A 59, 3044
 — (see Menon, Sunish) A 59, 740
 — (see Patnaik, Anil K.) A 59, 3015
 — (see Venugopalan, Anu) A 59, 1413
Agnello, S., R. Boscaino, M. Cannas, F. M. Gelardi, and R. N. Shakhmuratov — Transient nutations decay: The effect of field-modified dipolar interaction. A 59, 4087(BR)
Agostini, Pierre — (see Cormier, Eric) A 59, 3736
Ågren, H. — (see Magnuson, M.) A 59, 4281
Ågren, Hans — (see Salek, Paweł) A 59, 1147
Ågren, Hans — (see Gel'mukhanov, Faris) A 59, 380
Aguillon, F. — (see Babikov, D.) A 59, 330
Akiyoshi, Tsunekazu — (see Hino, Masahiro) A 59, 2261
Aksela, H., S. Alitalo, J. Jauhainen, A. Kivimäki, T. Matila, T. Kylli, E. Nömmiste, and S. Aksela — Ionization through the Auger decay of doubly excited $4d^9 5p^5 n l n' l'$ states in Xe. A 59, R2563
 — (see Karvonen, J.) A 59, 315
 — (see Kylli, T.) A 59, 4071(BR)
 — (see Püttner, R.) A 59, 4438
Aksela, S. — (see Aksela, H.) A 59, R2563
 — (see Karvonen, J.) A 59, 315
 — (see Kylli, T.) A 59, 4071(BR)
 — (see Püttner, R.) A 59, 4438
Akulshin, A. M. — (see Lezama, A.) A 59, 4732
Alber, G. and O. Zobay — Semiclassical interferences and catastrophes in the ionization of Rydberg atoms by half-cycle pulses. A 59, R3174
Alekseyev, A. B. — (see Wright, J. S.) A 59, 4512
Alexandrou, C., R. Rosenfelder, and A. W. Schreiber — Worldline path integral for the massive Dirac propagator: A four-dimensional approach. A 59, 1762
Algoet, Paul — (see Fujiwara, Akio) A 59, 3290
Ali, R. — (see Merabet, H.) A 59, R3158
Alitalo, S. — (see Aksela, H.) A 59, R2563
Allegrini, M. — (see Bezuglov, N. N.) A 59, 4340
Allen, L. — (see Arlt, J.) A 59, 3950
Alouini, Mehdi — (see Brunel, Marc) A 59, 831
Altstein, N. — (see Wolf, A.) A 59, 267
Altun, Zikri and Steven T. Manson — Photoionization of atomic scandium in the ground state: Total cross sections and $3p \rightarrow 3d$ resonances. A 59, 3576
Amiranashvili, Sh., N. Gusein-zade, and A. Ignatov — Stability of polygonal Coulomb crystals. A 59, 3098(BR)
Amos, R. M. — (see Worthing, P. T.) A 59, 865
Amusia, M. Ya, A. S. Baltenkov, Z. Felfli, and A. Z. Msezane — Large nondipole correlation effects near atomic photoionization thresholds. A 59, R2544
Ancarani, L. U. — (see Keller, S.) A 59, 1284
Andersen, J. U. — (see Dauvergne, D.) A 59, 2813
Andersen, T. — (see Præstegård, L.) A 59, R3154
Anderson, B. P. and M. A. Kasevich — Spatial observation of Bose-Einstein condensation of ^{87}Rb in a confining potential. A 59, R938
Anderson, L. W. — (see Boffard, John B.) A 59, 2749
 — (see Boffard, John B.) A 59, 4079(BR)
Anderson, W. R., C. C. Bradley, J. J. McClelland, and R. J. Celotta — Minimizing feature width in atom optically fabricated chromium nanostructures. A 59, 2476
Andersson, Erika, Márcia T. Fontenelle, and Stig Stenholm — Quantum statistics of atoms in microstructures. A 59, 3841
Andriamonje, S. — (see Dauvergne, D.) A 59, 2813
Andrianov, I. V. and G. K. Paramonov — Selective excitation of the vibrational-rotational states and dissociation of diatomic molecules by picosecond infrared laser pulses: Modeling for HF in the ground electronic state. A 59, 2134
Andric, Lidija — (see Suno, Hiroya) A 59, 524
Angulo, J. C. — (see Romera, E.) A 59, 4064(BR)
Antoine, P. — (see Maas, D. J.) A 59, 1374
Antoine, R. — (see Benichou, E.) A 59, R1
Antunes, A. — (see Telles, G. D.) A 59, R23
Ao, P. — (see Chui, S. T.) A 59, 1473
Appelt, S., A. Ben-Amar Baranga, A. R. Young, and W. Happer — Light narrowing of rubidium magnetic-resonance lines in high-pressure optical-pumping cells. A 59, 2078
Arai, K. — (see Kruppa, A. T.) A 59, 3556
Arčon, I. — (see Padežnik Gomilšek, J.) A 59, 3078(BR)
Arias, J. M. — (see Carvajal, M.) A 59, 1852
 — (see Carvajal, M.) A 59, 3462
Arimondo, Ennio — (see Dinneen, Timothy P.) A 59, 1216
Arista, N. R. and A. F. Lifschitz — Nonlinear calculation of stopping powers for protons and antiprotons in solids: The Barkas effect. A 59, 2719
Ariyasinghe, W. M. and D. Powers — Absolute K-shell ionization cross-section measurements of B produced by 0.4–2.0-MeV H^+ and He^+ ions and by 0.6–1.2-MeV H_2^+ ions. A 59, 1291
Arlt, J., K. Dholakia, L. Allen, and M. J. Padgett — Parametric down-conversion for light beams possessing orbital angular momentum. A 59, 3950
Arovas, Daniel P. — (see Freire, José A.) A 59, 1461
Artioni, M. and R. Loudon — Propagation of nonclassical light through an absorbing and dispersive slab. A 59, 2279
Ast, H. — (see Keller, S.) A 59, 1284
Atabek, O. — (see Pérez del Valle, C.) A 59, 3701
Atabek, Osman — (see Dion, Claude M.) A 59, 1382
Aucar, G. A. — (see Romero, R. H.) A 59, 4849(C)
Audretsch, Jürgen — (see Krutitsky, Konstantin V.) A 59, 1517

- Avaldi, L.** — (see Coreno, M.) A 59, 2494(BR)
 — (see Karvonen, J.) A 59, 315
 — (see Kylli, T.) A 59, 4071(BR)
 — (see Lahmam-Bennani, A.) A 59, 3548
- Averbukh, I. Sh., M. Shapiro, C. Leichte, and W. P. Schleich** — Reconstructing wave packets by quantum-state holography. A 59, 2163
- Averbukh, Vitali, Nimrod Moiseyev, Peter Schmelcher, and Lorenz S. Cederbaum** — Transition from Rydberg to giant-dipole-moment states of hydrogen atoms in crossed fields: A suggestion for an experiment. A 59, 3695
- Avestian, H. K., K. Z. Hatsagortsian, A. G. Markossian, and S. V. Movsisian** — Generalized eikonal wave function of a Dirac particle interacting with an arbitrary potential and radiation fields. A 59, 549
- Azuma, Y.** — (see Huang, M.-T.) A 59, 3397
- Babikov, D., F. Aguillon, M. Sizun, and V. Sidis** — Fragmentation of Na_2^+ dimer ions in kilo-electron-volt collisions with He: A coupled wave-packet study. A 59, 330
- Babin, S. A., E. V. Podivilov, D. A. Shapiro, U. Hinze, E. Tiemann, and B. Wellegehausen** — Effects of strong driving fields in resonant four-wave mixing schemes with down-conversion. A 59, 1355
- Bacchus-Montabonel, M. C.** — Theoretical treatment of electron-capture processes in ion-molecule collisions: $\text{B}^{3+} + \text{H}_2$ as a test case. A 59, 3569
- Bach, B.** — (see Kirch, K.) A 59, 3375
- Badnell, N. R.** — (see Mitnik, D. M.) A 59, 3592
- Badurek, G.** — (see Hasegawa, Y.) A 59, 4614
- Baer, A., M. Grieser, L. Knoll, J. Levin, R. Repnow, D. Schwalm, Z. Vager, R. Wester, A. Wolf, and D. Zajfman** — Ground state of CH_2^+ : Experimental aspects and theoretical implications. A 59, 1865
- Bagnato, V. S.** — (see Milori, D. M. B. P.) A 59, 3101(BR)
 — (see Miranda, S. G.) A 59, 882(BR)
 — (see Telles, G. D.) A 59, R23
- Bakalov, D.** — (see Korobov, V. I.) A 59, R919
- Balakrishnan, N.** — (see Forrey, R. C.) A 59, 2146
- Balcou, Ph.** — (see Gaarde, M. B.) A 59, 1367
- Balling, P.** — (see Præstegard, L.) A 59, R3154
- Balmer, J. E.** — (see Tommasini, R.) A 59, 1577
- Baltenkov, A. S.** — (see Amusia, M. Ya) A 59, R2544
- Baltzer, P.** — (see Öhrwall, G.) A 59, 1903
- Baluschev, S.** — (see Korsunsky, E. A.) A 59, 2302
- Banaszek, Konrad** — Quantum homodyne tomography with *a priori* constraints. A 59, 4797
- Bancroft, G. M.** — (see Püttner, R.) A 59, 4438
- Band, Y. B., P. S. Julienne, and M. Trippenbach** — Radio-frequency output coupling of the Bose-Einstein condensate for atom lasers. A 59, 3823
 — (see Tuvi, Inbal) A 59, 2680
- Bandrauk, André D., Djamaladdin G. Musaev, and Keiji Morokuma** — Electronic states of the triply charged molecular ion N_2^{3+} and laser-induced Coulomb explosion. A 59, 4309
 — and Jonathan Ruel — Charge-resonance-enhanced ionization of molecular ions in intense laser pulses: Geometric and orientation effects. A 59, 2153
 — and Hengtai Yu — High-order harmonic generation by one- and two-electron molecular ions with intense laser pulses. A 59, 539
 — (see Dion, Claude M.) A 59, 1382
- Banerji, J. and G. S. Agarwal** — Revival and fractional revival in the quantum dynamics of $\text{SU}(1,1)$ coherent states. A 59, 4777
- Barbatti, M., L. P. G. de Assis, Ginette Jalbert, L. F. S. Coelho, I. Borges, Jr., and N. V. de Castro Faria** — Collisional fragmentation of fast HeH^+ ions: The $\text{He}^{2+} + \text{H}^-$ channel. A 59, 1988
- Barbé, R.** — (see Maréchal, E.) A 59, 4636
- Barbosa, G. A.** — (see Fonseca, E. J. S.) A 59, 1608
- Bardroff, P. J., M. T. Fontenelle, and S. Stenholm** — Simple scheme for state measurement. A 59, R950
- Barnea, Nir** — Hyperspherical functions with arbitrary permutational symmetry: Reverse construction. A 59, 1135
- Barnes, W. L.** — (see Worthing, P. T.) A 59, 865
- Barnett, R. and G. N. Gibson** — Static field tunneling ionization of H_2^+ . A 59, 4843(BR)
- Barnett, Stephen M.** — (see Sasaki, Masahide) A 59, 3325
- Barreiro, S.** — (see Lezama, A.) A 59, 4732
- Bartlett, R. J.** — (see Morgan, D. V.) A 59, 4075(BR)
- Bartnik, A.** — (see Doron, R.) A 59, 188
- Bartsch, T.** — (see Schippers, S.) A 59, 3092(BR)
- Bartschat, K. and V. Zeman** — Electron-impact excitation from the $(3p^5 4s)$ metastable states of argon. A 59, R2552
 — (see Janzen, P. H.) A 59, 4821(BR)
- Barty, C. P. J.** — (see Kim, D.) A 59, R4129
- Barwood, G. P., G. Huang, H. A. Klein, P. Gill, and R. B. M. Clarke** — Subkilohertz comparison of the single-ion optical-clock $^2S_{1/2} - ^2D_{5/2}$ transition in two $^{88}\text{Sr}^+$ traps. A 59, R3178
- Baştuğ, T., Ş. Erkoç, M. Hirata, and S. Tachimori** — Stability of lutetium microclusters: Molecular-dynamics simulations. A 59, 3690
- Bauer, D. and P. Mulser** — Exact field ionization rates in the barrier-suppression regime from numerical time-dependent Schrödinger-equation calculations. A 59, 569
- Baum, G.** — (see Streun, M.) A 59, R4109
- Bauman, R. P.** — (see Martin, N. L. S.) A 59, 2764
- Bay, Sören** — (see Mølmer, Klaus) A 59, 904(C)
- Bayindir, M., B. Tanatar, and Z. Gedik** — Bose-Einstein condensation in a one-dimensional interacting system due to power-law trapping potentials. A 59, 1468
- Beatty, C. A.** — (see Tayal, S. S.) A 59, 3622
- Beaty, Leanne M.** — (see Looock, Hans-Peter) A 59, 873(BR)
- Bechmann-Pasquinnucci, H. and N. Gisin** — Incoherent and coherent eavesdropping in the six-state protocol of quantum cryptography. A 59, 4238
- Beck, Donald R.** — (see Norquist, Peggy L.) A 59, 1896
- Becken, W.** — (see Schmelcher, P.) A 59, 3424
- Becker, A. and F. H. M. Faisal** — Interplay of electron correlation and intense field dynamics in the double ionization of helium. A 59, R1742
 — and F. H. M. Faisal — Production of high-charge states of Xe in a femtosecond laser pulse. A 59, R3182
- Becker, U.** — (see Piancastelli, M. N.) A 59, 300
- Bedouet, C., F. Frémont, J. Y. Chesnel, X. Husson, H. Merabet, N. Vaeck, N. Zitane, B. Sulik, M. Grether, A. Spieler, and N. Stolterfoht** — Dielectronic excitation of Ne *K*-shell electrons in 2–170-keV $\text{N}^{7+} + \text{Ne}$ collisions. A 59, 4399
- Beekman, Richard A., Marc R. Roussel, and P. J. Wilson** — Equilibrium configurations of systems of trapped ions. A 59, 503
- Beenakker, C. W. J.** — (see Patra, M.) A 59, R43
- Behar, E., P. Mandelbaum, and J. L. Schwob** — Dielectronic recombination of Ne-like tungsten. A 59, 2787
 — (see Doron, R.) A 59, 188
- Beige, A.** — (see Plenio, M. B.) A 59, 2468
- Beige, Almut and Gerhard C. Hegerfeldt** — Cooperative effects in the light and dark periods of two dipole-interacting atoms. A 59, 2385
- Belkacem, Ali** — (see Ionescu, Dorin C.) A 59, 3527
- Bellomo, Paolo and C. R. Stroud, Jr.** — Comment on “Coherent states for the hydrogen atom”. A 59, 900(C)
 — and C. R. Stroud, Jr. — Classical evolution of quantum elliptic states. A 59, 2139
- Belyaev, A. K.** — (see Grosser, J.) A 59, 1309
- Bely-Dubau, F.** — (see Zhou, H. L.) A 59, 462
- Ben-Amar Baranga, A.** — (see Appelt, S.) A 59, 2078
- Bénazeth, S.** — (see Padežnik Gomilšek, J.) A 59, 3078(BR)
- Bencheikh, K.** — (see Maamache, M.) A 59, 3124(C)
- Bencze, Gy. and Colston Chandler** — Impossibility of distinguishing between identical particles in quantum collision processes. A 59, 3129(C)

- Bengtsson, P.** — (see Henderson, M.) A 59, 4068(BR)
- Benichou, E., R. Antoine, D. Rayane, B. Vezin, F. W. Dalby, Ph. Dugourd, M. Broyer, C. Ristori, F. Chandezon, B. A. Huber, J. C. Rocco, S. A. Blundell, and C. Guet** — Measurement of static electric dipole polarizabilities of lithium clusters: Consistency with measured dynamic polarizabilities. A 59, R1
- Benioff, Paul** — Simple example of definitions of truth, validity, consistency, and completeness in quantum mechanics. A 59, 4223
- Ben-Itzhak, I.** — (see Wolf, A.) A 59, 267
- Bennett, Charles H., David P. DiVincenzo, Christopher A. Fuchs, Tal Mor, Eric Rains, Peter W. Shor, John A. Smolin, and William K. Wootters** — Quantum nonlocality without entanglement. A 59, 1070
- Bennett, S. C., J. L. Roberts, and C. E. Wieman** — Measurement of the dc Stark shift of the $6S \rightarrow 7S$ transition in atomic cesium. A 59, R16
- Bensky, T. J.** — (see Campbell, M. B.) A 59, R4117
- Benson, Oliver and Yoshihisa Yamamoto** — Master-equation model of a single-quantum-dot microsphere laser. A 59, 4756
- Berakdar, J.** — (see Lahmam-Bennani, A.) A 59, 3548
- (see Streun, M.) A 59, R4109
- Bereziani, V. I., S. M. Mahajan, and R. Miklaszewski** — Frequency up-conversion and trapping of ultrashort laser pulses in semiconductor plasmas. A 59, 859
- Bergmann, K.** — (see Fleischhauer, M.) A 59, 3751
- (see Unanyan, R. G.) A 59, 2910
- (see Yatsenko, L. P.) A 59, 2926
- Bergmann, Klaas** — (see Solá, Ignacio R.) A 59, 4494
- Berman, P. R.** — Comparison of recoil-induced resonances and the collective atomic recoil laser. A 59, 585
- (see Dubetsky, B.) A 59, 2269
- Berman, R.** — (see Dolbeau, S.) A 59, 3506
- Bernard, J.** — (see Chen, L.) A 59, 2827
- Berrah, N.** — (see Carroll, T. X.) A 59, 3386
- (see Farhat, A.) A 59, 320
- Bersons, I. and A. Kulsh** — Excitation and ionization of Rydberg atoms by short half-cycle pulses. A 59, 1399
- Berthiaume, André** — (see Hillery, Mark) A 59, 1829
- Bettega, Márcio H. F.** — (see Natalense, Alexandra P. P.) A 59, 879(BR)
- Bezuglov, N. N., A. F. Molisch, A. N. Klucharev, F. Fuso, and M. Allegrini** — Solution of the Holstein equation of radiation trapping by the geometric quantization technique. II. Two- and three-dimensional geometries. A 59, 4340
- Bhaduri, R. K., N. D. Whelan, M. Brack, H. G. Miller, and M. V. N. Murthy** — Weyl series and the trace formula: A prescription for adding them. A 59, R911
- Bhalla, C. P.** — (see Liao, C.) A 59, 2773
- Bhardwaj, V. R., F. A. Rajgara, K. Vijayalakshmi, V. Kumarappan, D. Mathur, and A. K. Sinha** — Perturbation of water by intense light-induced fields of picosecond duration and ion-induced fields of attosecond duration. A 59, 3105(BR)
- , K. Vijayalakshmi, and D. Mathur — Dissociative ionization of benzene in intense laser fields of picosecond duration. A 59, 1392
- Bhatia, A. K. and Richard J. Drachman** — Polarizability of the ground state of the hydrogen molecular ion. A 59, 205
- Bhatia, Parminder S. and John W. Keto** — Pressure and power dependence of the optically heterodyne Raman-induced Kerr effect line shape. A 59, 4045
- Bhattacharyya, S. S.** — (see Datta, Avijit) A 59, 4502
- (see Ghosh, Swaralipi) A 59, 4475
- Bhushan, K. G.** — (see Wolf, A.) A 59, 267
- Bieron, Jacek, Charlotte Froese Fischer, and Ian P. Grant** — Large-scale multiconfigurational Dirac-Fock calculations of the hyperfine-structure constants and determination of the nuclear quadrupole moment of ^{49}Ti . A 59, 4295
- Bigelow, N. P.** — (see Pu, H.) A 59, 1533
- Bilodeau, René C.** — (see Norquist, Peggy L.) A 59, 1896
- Biswas, P. K. and Sadhan K. Adhikari** — Electron exchange model potential: Application to positronium-helium scattering. A 59, 363
- (see Adhikari, Sadhan K.) A 59, 2058
- (see Adhikari, Sadhan K.) A 59, 4829(BR)
- Biswas, R.** — (see Nath, B.) A 59, 455
- Bizau, J.-M.** — (see Zhou, H. L.) A 59, 462
- Björk, Gunnar** — (see Söderholm, Jonas) A 59, 1788
- Blanc, N.** — (see Tittonen, I.) A 59, 1038
- Blask, W.** — (see Streun, M.) A 59, R4109
- Bloch, Daniel** — (see Briaudeau, Stephan) A 59, 3723
- Blondel, Christophe** — (see Valli, Christophe) A 59, 3809
- Blum, T.** — (see Frasier, J. S.) A 59, 4358
- Blundell, S. A.** — (see Benichou, E.) A 59, R1
- Böckstiegel, C.** — (see Dauvergne, D.) A 59, 2813
- Boffard, John B., Mark E. Lagus, L. W. Anderson, and Chun C. Lin** — Electron-impact-excitation cross sections out of the 2^3S metastable level of helium at high energies. A 59, 4079(BR)
- , Garrett A. Piech, Mark F. Gehrke, L. W. Anderson, and Chun C. Lin — Measurement of electron-impact excitation cross sections out of metastable levels of argon and comparison with ground-state excitation. A 59, 2749
- Bohn, John L., James P. Burke, Jr., Chris H. Greene, H. Wang, P. L. Gould, and W. C. Stwalley** — Collisional properties of ultracold potassium: Consequences for degenerate Bose and Fermi gases. A 59, 3660
- (see Burke, James P., Jr.) A 59, 1303
- Boon, J. R., E. Zekou, D. McGloin, and M. H. Dunn** — Comparison of wavelength dependence in cascade-, Λ -, and Vee-type schemes for electromagnetically induced transparency. A 59, 4675
- Borges, I., Jr.** — (see Barbatti, M.) A 59, 1988
- Borisov, Andrei G.** — (see Deutscher, Stefan A.) A 59, 4446
- Boscaino, R.** — (see Agnello, S.) A 59, 4087(BR)
- Bose, S., K. Jacobs, and P. L. Knight** — Scheme to probe the coherence of a macroscopic object. A 59, 3204
- Bosselmann, Ph., U. Staude, D. Horn, K.-H. Schartner, F. Folkmann, A. E. Livingston, and P. H. Mokler** — Measurements of $2s^2S_{1/2} - 2p^2P_{1/2,3/2}$ transition energies in lithiumlike heavy ions. II. Experimental results for Ag^{44+} and discussion along the isoelectronic series. A 59, 1874
- Bossennec, J.-L.** — (see Maréchal, E.) A 59, 4636
- Bouchoule, I., H. Perrin, A. Kuhn, M. Morinaga, and C. Salomon** — Neutral atoms prepared in Fock states of a one-dimensional harmonic potential. A 59, R8
- Bouferguene, Ahmed, Ignacio Ema, and Charles A. Weatherford** — Nonadiabatic polarization potentials in electron- and positron-molecule scattering: Application to $e^- + \text{H}_2$. A 59, 2712
- Bowers, C. J., D. Budker, S. J. Freedman, G. Gwinner, J. E. Stalnaker, and D. DeMille** — Experimental investigation of the $6s^2\ ^1S_0 \rightarrow 5d6s\ ^3D_{1,2}$ forbidden transitions in atomic ytterbium. A 59, 3513
- (see Rochester, S.) A 59, 3480
- Boyce, Jack and Raymond Y. Chiao** — Transverse oscillation arising from spatial soliton formation in nonlinear optical cavities. A 59, 3953
- Boyd, Robert W. and G. S. Agarwal** — Preventing laser beam filamentation through use of the squeezed vacuum. A 59, R2587
- Boydston, Olen** — (see Mazevet, S.) A 59, 477
- Bozek, J.** — (see Carroll, T. X.) A 59, 3386
- (see Öhrwall, G.) A 59, 1903
- Bracco, G.** — (see Pedemonte, L.) A 59, 3084(BR)
- Brack, M.** — (see Bhaduri, R. K.) A 59, R911
- Bradley, C. C.** — (see Anderson, W. R.) A 59, 2476
- Bradshaw, A. M.** — (see Piancastelli, M. N.) A 59, 1336
- Brage, T.** — (see Henderson, M.) A 59, 4068(BR)
- Bramall, Nathan E.** — (see Winoto, S. Lukman) A 59, R19
- Brandau, C.** — (see Schippers, S.) A 59, 3092(BR)
- Brandefelt, N. and E. Lindroth** — ^4S resonances of He^- below the $\text{He}^+(n=1)$ threshold. A 59, 2691
- Brandt, Howard E.** — Eavesdropping optimization for quantum cryptography using a positive operator-valued measure. A 59, 2665

- Bratfalean, R. and P. Ewart** — Erratum: Spectral line shape of nonresonant four-wave mixing in Markovian stochastic fields [Phys. Rev. A **56**, 2267 (1997)]. A **59**, 4850(E)
- Brattke, S.** — (see Kallmann, U.) A **59**, 814
- Braun, J. W., Q. Su, and R. Grobe** — Numerical approach to solve the time-dependent Dirac equation. A **59**, 604
- Bräuning, H.** — (see Spielberger, L.) A **59**, 371
- Bray, I.** — (see Johnson, P. V.) A **59**, 439
- Bray, Igor** — Reply to “Possibility of distinguishing between identical particles in quantum collision processes”. A **59**, 3133(C)
- (see Fursa, Dmitry V.) A **59**, 282
- (see Fursa, Dmitry V.) A **59**, 1297
- (see Karaganov, V.) A **59**, 4407
- (see Ralchenko, Yuri V.) A **59**, 1890
- Breach, R. J., P. R. Rice, and M. Xiao** — N two-level atoms in a driven optical cavity: Quantum dynamics of forward photon scattering for weak incident fields. A **59**, 2392
- Breitenbach, G.** — (see Tittonen, I.) A **59**, 1038
- Brendel, J.** — (see Tittel, W.) A **59**, 4150
- Brescansin, L. M.** — (see Lee, M.-T.) A **59**, 1208
- Breslin, J. K. and G. J. Milburn** — Sensitivity to measurement errors in the quantum kicked top. A **59**, 1781
- Bretenaker, Fabien** — (see Brunel, Marc) A **59**, 831
- Breuer, Heinz-Peter, Bernd Kappler, and Francesco Petruccione** — Stochastic wave-function method for non-Markovian quantum master equations. A **59**, 1633
- Briaudeau, Stephan, Daniel Bloch, and Martial Ducloy** — Sub-Doppler spectroscopy in a thin film of resonant vapor. A **59**, 3723
- Briegel, H. J.** — (see Giedke, G.) A **59**, 2641
- Briegel, H.-J.** — (see Dür, W.) A **59**, 169
- Brif, C. and A. Mann** — Phase-space formulation of quantum mechanics and quantum-state reconstruction for physical systems with Lie-group symmetries. A **59**, 971
- (see Ramon, G.) A **59**, 736
- Brockhaus, Peter, Kin Wong, Klavs Hansen, Vitaly Kasperovich, George Tikhonov, and Vitaly V. Kresin** — Measuring cluster temperatures via kinetic-energy release. A **59**, 495
- Brome, C. R.** — (see McKinsey, D. N.) A **59**, 200
- Brosens, F.** — (see Lemmens, L. F.) A **59**, 3112(BR)
- Browne, Charles** — (see Duan, Yiwu) A **59**, 238
- Broyer, M.** — (see Benichou, E.) A **59**, R1
- Bruckmeier, Robert and Stephan Schiller** — Properties of the linearized quantum optical bus. A **59**, 750
- Brun, Todd A. and Rüdiger Schack** — Realizing the quantum baker’s map on a NMR quantum computer. A **59**, 2649
- Brunel, Marc, Olivier Emile, Mehdi Alouini, Albert Le Floch, and Fabien Bretenaker** — Experimental and theoretical study of longitudinally monomode vectorial solid-state lasers. A **59**, 831
- Brunelle, A., S. Della-Negra, J. Depauw, D. Jacquet, Y. Le Beyec, and M. Pautrat** — Reduced charge state of MeV carbon cluster constituents exiting thin carbon foils. A **59**, 4456
- Brunger, M. J., I. E. McCarthy, and E. Weigold** — High-resolution electron-momentum spectroscopy of argon: Validation of technique and approximations. A **59**, 1245
- Brusa, Roberto S.** — (see Karwasz, Grzegorz P.) A **59**, 1341
- Bryan, W. A.** — (see Sanderson, J. H.) A **59**, R2567
- Bryant, H. C.** — (see Rislove, D. C.) A **59**, 906(E)
- Budker, D.** — (see Bowers, C. J.) A **59**, 3513
- (see Rochester, S.) A **59**, 3480
- Buenker, R. J.** — (see Gu, J.-P.) A **59**, 405
- (see Wright, J. S.) A **59**, 4512
- Burgbacher, Frank** — (see Krutitsky, Konstantin V.) A **59**, 1517
- Burgdörfer, J.** — (see Frey, M. T.) A **59**, 1434
- (see Spielberger, L.) A **59**, 371
- (see Yoshida, S.) A **59**, R4121
- Burgdörfer, Joachim** — (see Qiu, Yanghui) A **59**, 2738
- Burke, James P., Jr. and John L. Bohn** — Ultracold scattering properties of the short-lived Rb isotopes. A **59**, 1303
- (see Bohn, John L.) A **59**, 3660
- Burnett, K.** — (see Godun, R. M.) A **59**, 3775
- (see Marshall, R. J.) A **59**, 2085
- (see Rusch, M.) A **59**, 3851
- Butterworth, J. S.** — (see McKinsey, D. N.) A **59**, 200
- Bužek, Vladimír** — (see Hillery, Mark) A **59**, 1829
- Byrnes, T. M. R., V. A. Dzuba, V. V. Flambaum, and D. W. Murray** — Enhancement factor for the electron electric dipole moment in francium and gold atoms. A **59**, 3082(BR)
- Caban, P. and J. Rembieliński** — Lorentz-covariant quantum mechanics and preferred frame. A **59**, 4187
- Cabello, Adán** — Quantum correlations are not local elements of reality. A **59**, 113
- Cabrera-Trujillo, R., S. A. Cruz, Jens Oddershede, and John R. Sabin** — Erratum: Bethe theory of stopping incorporating electronic excitations of partially stripped projectiles [Phys. Rev. A **55**, 2864 (1997)]. A **59**, 4850(E)
- Cabrillo, C., J. I. Cirac, P. García-Fernández, and P. Zoller** — Creation of entangled states of distant atoms by interference. A **59**, 1025
- Cahill, Kevin E. and Roy J. Glauber** — Density operators for fermions. A **59**, 1538
- Cakmak, H.M.** — (see Merabet, H.) A **59**, R3158
- Calderón, Oscar G.** — (see Encinas-Sanz, F.) A **59**, 4764
- Caldwell, C. D., M. O. Krause, R. D. Cowan, A. Menzel, S. B. Whitfield, S. Hallman, S. P. Frigo, and M. C. Severson** — Inner-shell photoexcitation in an open-shell atom: The Cl 2p $\rightarrow ns,md$ spectrum as a case study. A **59**, R926
- Calsamiglia, J.** — (see Lütkenhaus, N.) A **59**, 3295
- Cameron, Douglas B.** — (see Maier-Borst, Mathias) A **59**, R3162
- Camilloni, R.** — (see Coreno, M.) A **59**, 2494(BR)
- (see Karvonen, J.) A **59**, 315
- (see Kylli, T.) A **59**, 4071(BR)
- Camparo, J. C. and J. G. Coffer** — Conversion of laser phase noise to amplitude noise in a resonant atomic vapor: The role of laser linewidth. A **59**, 728
- and **P. Lambropoulos** — Quantum-mechanical interference between optical transitions: The effect of laser intensity noise. A **59**, 2515(BR)
- Campbell, M. B., T. J. Binsky, and R. R. Jones** — Complete view of Stark wave-packet evolution. A **59**, R4117
- Cannas, M.** — (see Agnello, S.) A **59**, 4087(BR)
- Capuzzi, P. and E. S. Hernández** — Bose-Einstein condensation in harmonic double wells. A **59**, 1488
- and **E. S. Hernández** — Barrier effects on the collective excitations of split Bose-Einstein condensates. A **59**, 3902
- Carata, L., A. E. Orel, and A. Suzor-Weiner** — Dissociative recombination of He_2^+ molecular ions. A **59**, 2804
- Cardoso, G. C., V. R. de Carvalho, S. S. Vianna, and J. W. R. Tabosa** — Population-grating transfer in cold cesium atoms. A **59**, 1408
- Carlsen, Henrik and Osvaldo Goscinski** — Dynamics of particles for circular Rydberg states. A **59**, 1063
- Carpenter, D. L.** — (see Williams, W. W.) A **59**, 4368
- Carroll, T. X., N. Berrah, J. Bozek, J. Hahne, E. Kukk, L. J. Sæthre, and T. D. Thomas** — Carbon 1s photoelectron spectrum of methane: Vibrational excitation and core-hole lifetime. A **59**, 3386
- Carvajal, M., J. M. Arias, and J. Gómez-Camacho** — Configuration localized Morse wave functions: Application to vibrational transitions in anharmonic diatomic molecules. A **59**, 1852
- , **J. M. Arias, and J. Gómez-Camacho** — Analytic evaluation of Franck-Condon integrals for anharmonic vibrational wave functions. A **59**, 3462
- Carzoli, J. C., M. Dunn, and D. K. Watson** — Singly and doubly excited states of the D -dimensional helium atom. A **59**, 182
- Casas, M.** — (see Puente, A.) A **59**, 3211
- Cataliotti, F. S.** — (see Prevedelli, M.) A **59**, 886(BR)
- Cederbaum, L. S.** — (see Dreuw, A.) A **59**, 2702
- Cederbaum, Lorenz S.** — (see Averbukh, Vitali) A **59**, 3695

- Cederquist, H.** — (see Opitz, J.) A 59, 3562
- Celli, V.** — (see Frasier, J. S.) A 59, 4358
- Celotta, R. J.** — (see Anderson, W. R.) A 59, 2476
- Ceperley, David M.** — (see Jones, Matthew D.) A 59, 2875
- Cesar, Claudio L. and Daniel Kleppner** — Two-photon Doppler-free spectroscopy of trapped atoms. A 59, 4564
- Chan, Garnet Kin-Lic and Nicholas C. Handy** — Kinetic-energy systems, density scaling, and homogeneity relations in density-functional theory. A 59, 2670
- Chan, K. W.** — (see Wu, Ying) A 59, 1662
- Chandezon, F.** — (see Benichou, E.) A 59, R1
- Chandler, Colston** — (see Bencze, Gy.) A 59, 3129(C)
- Chang, Bo Y.** — (see Solá, Ignacio R.) A 59, 4494
- Charalambidis, D.** — (see Papastathopoulos, E.) A 59, 4840(BR)
- (see Witzel, B.) A 59, 3141(E)
- Chaudhuri, Rajat K., Prafulla K. Panda, and B. P. Das** — Hybrid approach to relativistic Gaussian basis functions: Theory and applications. A 59, 1187
- (see Majumder, Sonjoy) A 59, 3432
- Chen, Chuanhong** — (see Li, Mingzhe) A 59, 3109(BR)
- Chen, L., J. Bernard, A. Denis, S. Martin, and J. Désesquelles** — Fragmentation scheme of C_{60}^{4+} ions produced in low-energy collisions of Ar^{8+} and C_{60} . A 59, 2827
- Chen, Li** — (see Martin, Serge) A 59, R1734
- Chen, Lixuan** — (see Li, Mingzhe) A 59, 3109(BR)
- Chen, M. H.** — (see Sapirstein, J.) A 59, 259
- Chen, Shigang** — (see Cheng, Taiwang) A 59, 1451
- Chen, Xin and John A. Yeazell** — Phase-conjugate picture of a wave-packet interference design for arbitrary target states. A 59, 3782
- Chen, Zhang-Jin** — (see Li, Shu-Min) A 59, 1697
- Cheng, K. T.** — (see Johnson, W. R.) A 59, 3609
- (see Sapirstein, J.) A 59, 259
- Cheng, S.** — (see Schäffer, H. W.) A 59, 245
- Cheng, Taiwang, Jie Liu, and Shigang Chen** — High-intensity two-color interference effect on atomic stabilization. A 59, 1451
- Chesnel, J. Y.** — (see Bedouet, C.) A 59, 4399
- Chesnel, J.-Y.** — (see Stolterfoht, N.) A 59, 1262
- Chetouani, Lyazid** — (see Dekar, Liès) A 59, 107
- Chevallier, M.** — (see Dauvergne, D.) A 59, 2813
- Chiao, Raymond Y.** — (see Boyce, Jack) A 59, 3953
- Chizhov, A. V.** — (see Knöll, L.) A 59, 4716
- Choe, A. S.** — (see Kim, H. A.) A 59, 1404
- Choi, Nark Nyul** — (see Lee, Min-Ho) A 59, 1966
- Choi, S.** — (see Marshall, R. J.) A 59, 2085
- Chu, M.-C.** — (see Wu, Ying) A 59, 1662
- (see Wu, Ying) A 59, 3032
- Chu, Shih-I** — (see Telnov, Dmitry A.) A 59, 2864
- Chui, S. T. and P. Ao** — Broken cylindrical symmetry in binary mixtures of Bose-Einstein condensates. A 59, 1473
- Chung, Kwong T.** — Auger decay of multiply excited atomic systems. A 59, 2065
- Church, D. A.** — (see Moehs, D. P.) A 59, 1884
- Chutjian, A.** — (see Greenwood, J. B.) A 59, 1348
- (see Orient, O. J.) A 59, 4374
- Cirac, J. I., A. K. Ekert, S. F. Huelga, and C. Macchiavello** — Distributed quantum computation over noisy channels. A 59, 4249
- (see Cabrillo, C.) A 59, 1025
- (see Dür, W.) A 59, 169
- (see Giedke, G.) A 59, 2641
- (see Morigi, G.) A 59, 3797
- (see van Enk, S. J.) A 59, 2659
- Cisneros, C.** — (see Püttner, R.) A 59, 3415
- Čížek, J.** — (see Skála, L.) A 59, 102
- Clarke, R. B. M.** — (see Barwood, G. P.) A 59, R3178
- Clausen, J.** — (see Dakna, M.) A 59, 1658
- Cochran, W. R.** — (see Komara, R. A.) A 59, 251
- Cochrane, P. T., G. J. Milburn, and W. J. Munro** — Macroscopically distinct quantum-superposition states as a bosonic code for amplitude damping. A 59, 2631
- Cocke, C. L.** — (see Liao, C.) A 59, 2773
- Coelho, L. F. S.** — (see Barbatti, M.) A 59, 1988
- Coffer, J. G.** — (see Camparo, J. C.) A 59, 728
- Cohen, C.** — (see Dauvergne, D.) A 59, 2813
- Cohen, E. G. D.** — (see Simkin, M. V.) A 59, 1528
- Cohen, James S.** — Isotope effects on antiproton and muon capture by hydrogen and deuterium atoms and molecules. A 59, 1160
- Negative pion capture in HD gas and in $H_2 + D_2$ gas mixtures: Resolution of the isotope puzzle. A 59, 4300
- Cohen, S. M. and P. T. Leung** — Comment on “Relativistic correction of the generalized oscillator strength sum rules”. A 59, 4847(C)
- Colet, Pere** — (see Hoyuelos, Miguel) A 59, 1622
- Colle, R.** — (see Coreno, M.) A 59, 2494(BR)
- Collett, M. J.** — (see Jack, M. W.) A 59, 2306
- (see Jack, M. W.) A 59, 2962
- Connor, J. N. L.** — (see Hollifield, J. J.) A 59, 1694(BR)
- Conradt, R.** — (see Tittonen, I.) A 59, 1038
- Constant, E.** — (see Gaarde, M. B.) A 59, 1367
- Cooper, J.** — (see Paul, B. D.) A 59, 4784
- (see Walser, R.) A 59, 3878
- (see Williams, J.) A 59, R31
- Cooper, J. W.** — (see Huang, M.-T.) A 59, 3397
- Cooper, John W.** — Asymptotic ratios of single, double, and triple photoionization for lithium at high energies. A 59, 4825(BR)
- Corbalán, R.** — (see Mompert, J.) A 59, 3038
- Coreno, M., L. Avaldi, R. Camilloni, K. C. Prince, M. de Simone, J. Karvonen, R. Colle, and S. Simonucci** — Measurement and *ab initio* calculation of the Ne photoabsorption spectrum in the region of the K edge. A 59, 2494(BR)
- (see Karvonen, J.) A 59, 315
- (see Kylli, T.) A 59, 4071(BR)
- Corkum, P. B.** — (see Ellert, Ch.) A 59, R3170
- (see Wright, J. S.) A 59, 4512
- Cormier, Eric, Anna Sanpera, Maciej Lewenstein, and Pierre Agostini** — Interference effects in two-photon above-threshold ionization by multiple orders of high-order harmonics with random or locked phases. A 59, 3736
- Cornaggia, C.** — (see Hering, Ph.) A 59, 2836
- Cornelius, Christopher M. and Jonathan P. Dowling** — Modification of Planck blackbody radiation by photonic band-gap structures. A 59, 4736
- Cornell, E.** — (see Williams, J.) A 59, R31
- Cornell, E. A.** — (see Prevedelli, M.) A 59, 886(BR)
- Corney, J. F., G. J. Milburn, and Weiping Zhang** — Weak-force detection using a double Bose-Einstein condensate. A 59, 4630
- Cosby, P. C.** — (see Müller, U.) A 59, 3632
- Coutinho, F. A. B., Y. Nogami, and Lauro Tomio** — Validity of Feynman’s prescription of disregarding the Pauli principle in intermediate states. A 59, 2624
- Covington, A. M.** — (see Williams, W. W.) A 59, 4368
- Cowan, R. D.** — (see Caldwell, C. D.) A 59, R926
- Cruz, S. A.** — (see Cabrera-Trujillo, R.) A 59, 4850(E)
- Csordás, András and Robert Graham** — Collective excitations in Bose-Einstein condensates in triaxially anisotropic parabolic traps. A 59, 1477
- (see Reidl, Jürgen) A 59, 3816
- Cubaynes, D.** — (see Zhou, H. L.) A 59, 462
- Cue, N.** — (see Dauvergne, D.) A 59, 2813
- Curtis, L. J.** — (see Henderson, M.) A 59, 4068(BR)
- (see Schäffer, H. W.) A 59, 245
- Czajkowski, S.** — (see Dauvergne, D.) A 59, 2813
- Czarnecki, Andrzej, Kirill Melnikov, and Alexander Yelkhovsky** — Positronium S-state spectrum: Analytic results at $O(m\alpha^6)$. A 59, 4316
- Dahl, Jens Peder and Michael Springborg** — Comment on “Wigner phase-space distribution function for the hydrogen atom”. A 59, 4099(C)

- Dakna, M., J. Clausen, L. Knöll, and D.-G. Welsch** — Generation of arbitrary quantum states of traveling fields. A **59**, 1658
- Dalby, F. W.** — (see Benichou, E.) A **59**, R1
- Dalgarno, A.** — (see Forrey, R. C.) A **59**, 2146
- (see Forrey, Robert C.) A **59**, R942
- Dalvit, Diego A. R. and Francisco D. Mazzitelli** — Creation of photons in an oscillating cavity with two moving mirrors. A **59**, 3049
- Danckaert, Jan** — (see Erneux, Thomas) A **59**, 4660
- Daniel, H., F. J. Hartmann, and R. A. Naumann** — Solid-state effects on Coulomb capture and x-ray cascade of negative muons. A **59**, 3343
- D'Ariano, G. M., C. Macchiavello, and L. Maccone** — Quantum tomography of mesoscopic superpositions of radiation states. A **59**, 1816
- , **M. F. Sacchi, and Prem Kumar** — Tomographic measurements of nonclassical radiation states. A **59**, 826
- Das, B. P.** — (see Chaudhuri, Rajat K.) A **59**, 1187
- (see Majumder, Sonjoy) A **59**, 3432
- Das, Kunal K.** — (see Marburger, John H., III) A **59**, 2213
- Datta, Avijit and S. S. Bhattacharyya** — Laser-induced resonant structures in a close-coupling calculation of two-frequency multiphoton dissociation of HD^+ . A **59**, 4502
- Dauvergne, D., C. Scheidenberger, A. L'Hoir, J. U. Andersen, S. Andriamonje, C. Böckstiegel, M. Chevallier, C. Cohen, N. Cue, S. Czajkowski, J. S. Forster, H. Geissel, H. Irnich, T. Kandler, R. Kirsch, A. Magel, P. H. Mokler, G. Münzenberg, F. Nickel, Yu. L. Pivovarov, J.-C. Poizat, M. F. Politis, J. Remillieux, D. Schmaus, Th. Stöhlker, T. Suzuki, and M. Toulemonde** — Charge states and energy loss of 300-MeV/u U^{73+} ions channeled in a silicon crystal. A **59**, 2813
- Davidovich, L.** — (see Protsenko, I.) A **59**, 1667
- Davidson, Nir** — (see Ozeri, Roe) A **59**, R1750
- Davies, Benjamin J.** — (see Haeffler, Gunnar) A **59**, 3655
- de Assis, L. P. G.** — (see Barbatti, M.) A **59**, 1988
- de Carvalho, V. R.** — (see Cardoso, G. C.) A **59**, 1408
- de Castro Faria, N. V.** — (see Barbatti, M.) A **59**, 1988
- Degli Esposti Boschi, C. and L. Ferrari** — Quantum states of an oscillator with periodic time-dependent frequency under quasis resonant condition: Unperturbed evolution, perturbative effects, and anharmonic effects. A **59**, 3270
- Dehesa, J. S.** — (see Koga, Toshikatsu) A **59**, 4805(BR)
- (see Romera, E.) A **59**, 4064(BR)
- Dekar, Liès, Lyazid Chetouani, and Théophile F. Hammann** — Wave function for smooth potential and mass step. A **59**, 107
- Delgado, V.** — Quantum probability distribution of arrival times and probability current density. A **59**, 1010
- Della-Negra, S.** — (see Brunelle, A.) A **59**, 4456
- Delsart, Christian** — (see Valli, Christophe) A **59**, 3809
- de Matos Filho, R. L.** — (see Solano, E.) A **59**, R2539
- DeMille, D.** — (see Bowers, C. J.) A **59**, 3513
- (see Rochester, S.) A **59**, 3480
- Deng, J. Q., G. Mileti, R. E. Drullinger, D. A. Jennings, and F. L. Walls** — Noise considerations for locking to the center of a Lorentzian line. A **59**, 773
- Denis, A.** — (see Chen, L.) A **59**, 2827
- Denis, Alain** — (see Martin, Serge) A **59**, R1734
- Depauw, J.** — (see Brunelle, A.) A **59**, 4456
- DePue, Marshall T.** — (see Winoto, S. Lukman) A **59**, R19
- Derevianko, A.** — (see Johnson, W. R.) A **59**, 3609
- de Rooij, N. F.** — (see Tittonen, I.) A **59**, 1038
- Désésquelles, J.** — (see Chen, L.) A **59**, 2827
- Désésquelles, Jean** — (see Martin, Serge) A **59**, R1734
- de Simone, M.** — (see Coreno, M.) A **59**, 2494(BR)
- (see Karvonen, J.) A **59**, 315
- (see Kylli, T.) A **59**, 4071(BR)
- Deutscher, Stefan A., Andrei G. Borisov, and Victor Sidis** — Formation of negative ions from fluorine projectiles scattered off a $\text{MgO}(100)$ surface: Theory. A **59**, 4446
- Devreese, J. T.** — (see Lemmens, L. F.) A **59**, 3112(BR)
- Dhirani, A.** — (see Pritchard, D. E.) A **59**, 4641
- Dholakia, K.** — (see Arlt, J.) A **59**, 3950
- Diehl, S.** — (see Zhou, H. L.) A **59**, 462
- Diehnelt, C. W., M. J. Van Stipdonk, and E. A. Schweikert** — Carbon-cluster formation from polymers caused by MeV-ion impacts and keV-cluster-ion impacts. A **59**, 4470
- DiLabio, G.A.** — (see Wright, J. S.) A **59**, 4512
- Dinneen, Timothy P., Kurt R. Vogel, Ennio Arimondo, John L. Hall, and Alan Gallagher** — Cold collisions of Sr^* -Sr in a magneto-optical trap. A **59**, 1216
- Dion, Claude M., Arne Keller, Osman Atabek, and André D. Bandrauk** — Laser-induced alignment dynamics of HCN: Roles of the permanent dipole moment and the polarizability. A **59**, 1382
- Ditmire, T.** — (see Zweiback, J.) A **59**, R3166
- DiVincenzo, David P., Peter W. Shor, and John A. Smolin** — Erratum: Quantum-channel capacity of very noisy channels [Phys. Rev. A **57**, 830 (1998)]. A **59**, 1717(E)
- (see Bennett, Charles H.) A **59**, 1070
- Dobryakov, A. L.** — (see Kovalenko, S. A.) A **59**, 2369
- Dobson, Chris C. and C. C. Sung** — Laser-induced optical pumping measurements of cross sections for fine- and hyperfine-structure transitions in sodium induced by collisions with helium and argon atoms. A **59**, 3402
- Dolbeau, S., R. Berman, J. R. Drummond, and A. D. May** — Dicke narrowing as an example of line mixing. A **59**, 3506
- Dolmatov, Valery K.** — (see Johnson, W. R.) A **59**, 3609
- Dominguez, I.** — (see Püttner, R.) A **59**, 3415
- Domke, M.** — (see Püttner, R.) A **59**, 3415
- Domokos, P.** — (see Protsenko, I.) A **59**, 1667
- Dong, Shi-Hai, Xi-Wen Hou, and Zhong-Qi Ma** — Levinson's theorem for the Klein-Gordon equation in two dimensions. A **59**, 995
- Doppelfeld, J.** — (see von Busch, F.) A **59**, 2030
- Dörner, R.** — (see Spielberger, L.) A **59**, 371
- Doron, R., E. Behar, P. Mandelbaum, J. L. Schwob, H. Fiedorowicz, A. Bartnik, R. Jarocki, M. Szczurek, and T. Wilhein** — Spectroscopic signature of strong dielectronic recombination in highly ionized xenon produced by irradiating a gas puff with laser. A **59**, 188
- Dowell, M. L.** — (see Paul, B. D.) A **59**, 4784
- Dowling, Jonathan P.** — (see Cornelius, Christopher M.) A **59**, 4736
- Doyle, J. M.** — (see McKinsey, D. N.) A **59**, 200
- Drachman, Richard J.** — (see Bhatia, A. K.) A **59**, 205
- Dreizler, R. M.** — (see Keller, S.) A **59**, 1284
- Dreuw, A. and L. S. Cederbaum** — Long-lived high-spin states of small anions: ${}^6\Pi$ state of CO^- . A **59**, 2702
- Drullinger, R. E.** — (see Deng, J. Q.) A **59**, 773
- Drummond, J. R.** — (see Dolbeau, S.) A **59**, 3506
- Drummond, P. D. and M. Hillery** — Quantum theory of dispersive electromagnetic modes. A **59**, 691
- Du, Mengli** — (see Yang, Guangcan) A **59**, 2053
- Duan, Lu-Ming and Guang-Can Guo** — Quantum error correction with spatially correlated decoherence. A **59**, 4058(BR)
- Duan, Yiwu, Charles Browne, and Jian-Min Yuan** — Nonlinear dynamical behavior of a hydrogen molecular ion and similar three-body Coulomb systems. A **59**, 238
- Dubetsky, B. and P. R. Berman** — Matter-wave interference using two-level atoms and resonant optical fields. A **59**, 2269
- Ducloy, M.** — (see Klimov, V. V.) A **59**, 2996
- Ducloy, Martial** — (see Briaudeau, Stephan) A **59**, 3723
- Dugourd, Ph.** — (see Benichou, E.) A **59**, R1
- Duguet, A.** — (see Lahmam-Bennani, A.) A **59**, 3548
- Dunford, R. W.** — (see Schäffer, H. W.) A **59**, 245
- Dung, Ho Trung and Kikuo Ujihara** — Analytic solution for retardation in two-atom systems. A **59**, 2524(BR)
- Dunn, M. and D. K. Watson** — Large-dimension limit of higher-angular-momentum states of two-electron atoms. A **59**, 1109
- (see Carzoli, J. C.) A **59**, 182
- Dunn, M. H.** — (see Boon, J. R.) A **59**, 4675
- Dunning, F. B.** — (see Frey, M. T.) A **59**, 1434

- (see Yoshida, S.) A 59, R4121
- Dür, W., H.-J. Briegel, J. I. Cirac, and P. Zoller** — Quantum repeaters based on entanglement purification. A 59, 169
- Dürr, Stephan and Gerhard Rempe** — Acceptance angle for Bragg reflection of atoms from a standing light wave. A 59, 1495
- Dutra, S. M., K. Joosten, G. Nienhuis, N. J. van Druten, A. M. van der Lee, M. P. van Exter, and J. P. Woerdman** — Maxwell-Bloch approach to excess quantum noise. A 59, 4699
- (see Moya-Cessa, H.) A 59, 2518
- Dutta, C. M.** — (see Gu, J.-P.) A 59, 405
- Dzhosyuk, S. N.** — (see McKinsey, D. N.) A 59, 200
- Dzuba, V. A., V. V. Flambaum, and J. K. Webb** — Calculations of the relativistic effects in many-electron atoms and space-time variation of fundamental constants. A 59, 230
- (see Byrnes, T. M. R.) A 59, 3082(BR)
- Eades, J.** — (see Torii, H. A.) A 59, 223
- Eberly, J. H.** — (see Pu, H.) A 59, 1533
- Ebisawa, Toru** — (see Hino, Masahiro) A 59, 2261
- Edwards, A. K.** — (see Mangan, M. A.) A 59, 358
- Egusquiza, Íñigo L., Luis J. Garay, and José M. Raya** — Quantum evolution according to real clocks. A 59, 3236
- Ehlotzky, F.** — (see Kamiński, J. Z.) A 59, 2105
- Eichler, J.** — (see Wells, J. C.) A 59, 346
- Eichmann, U., J. Reinhardt, S. Schramm, and W. Greiner** — Coulomb effects on electromagnetic pair production in ultrarelativistic heavy-ion collisions. A 59, 1223
- (see Huang, W.) A 59, 2744
- (see Schumann, R.) A 59, 2120
- Ejnisman, R.** — (see Milori, D. M. B. P.) A 59, 3101(BR)
- Eker, G.** — (see Smith, R.) A 59, R47
- Ekert, A. K.** — (see Cirac, J. I.) A 59, 4249
- Elbs, Michael, Horst Knöckel, Tanja Laue, Christian Samuelis, and Eberhard Tiemann** — Observation of the last bound levels near the Na₂ ground-state asymptote. A 59, 3665
- Elgarøy, Ø. and C. J. Pethick** — Absence of fragmentation of the condensate in a model for bosons in a trap. A 59, 1711(BR)
- Eliel, E. R.** — (see van Kampen, H.) A 59, 271
- Ellert, Ch. and P. B. Corkum** — Disentangling molecular alignment and enhanced ionization in intense laser fields. A 59, R3170
- (see Wright, J. S.) A 59, 4512
- El-Zein, A.** — (see Sanderson, J. H.) A 59, R2567
- Ema, Ignacio** — (see Bouferguene, Ahmed) A 59, 2712
- Emile, Olivier** — (see Brunel, Marc) A 59, 831
- Emmons, E.D.** — (see Merabet, H.) A 59, R3158
- Encinas-Sanz, F., Oscar G. Calderón, R. Gutiérrez-Castrejón, and J. M. Guerra** — Measurement of the spatiotemporal dynamics of simple transverse patterns in a pulsed transversely excited atmospheric CO₂ laser. A 59, 4764
- Encinosa, Mario** — Guided random-walk calculation of energies and $\langle \sqrt{r^2} \rangle$ values of the $^1\Sigma_g$ state of H₂ in a magnetic field. A 59, 2521(BR)
- Engel, E.** — (see Varga, S.) A 59, 4288
- Ensher, J. R.** — (see Prevedelli, M.) A 59, 886(BR)
- Enzer, D.** — (see Tseng, C. H.) A 59, 2094
- Erkoç, Ş. and H. J. F. Jansen** — Application of density-functional theory to atomic resonances. A 59, 2490(BR)
- (see Baştuğ, T.) A 59, 3690
- Erneux, T.** — (see Hohl, A.) A 59, 3941
- Erneux, Thomas, Jan Danckaert, K. Panajotov, and I. Veretennicoff** — Two-variable reduction of the San Miguel–Feng–Moloney model for vertical-cavity surface-emitting lasers. A 59, 4660
- Ernsting, N. P.** — (see Kovalenko, S. A.) A 59, 2369
- Ertmer, W.** — (see Hinderthür, H.) A 59, 2216
- Eschner, J.** — (see Morigi, G.) A 59, 3797
- Esry, B. D. and Chris H. Greene** — Spontaneous spatial symmetry breaking in two-component Bose-Einstein condensates. A 59, 1457
- Evans, M.** — (see Shiell, R. C.) A 59, 2903
- Eves, B.** — (see Johnson, P. V.) A 59, 439
- Ewart, P.** — (see Bratfalean, R.) A 59, 4850(E)
- Faisal, F. H. M.** — (see Becker, A.) A 59, R1742
- (see Becker, A.) A 59, R3182
- Fang, Z. and Victor H. S. Kwong** — Charge transfer between Si⁴⁺ ion and helium at electron-volt energies. A 59, 342
- Fantoni, S.** — (see Raghavan, S.) A 59, 620
- Farhat, A., A. A. Wills, B. Langer, and N. Berrah** — Resonant Auger decay studies in Kr $3d_{3/2,5/2}^{-1}np$ states using angle-resolved electron imaging spectroscopy. A 59, 320
- Farkas, Gy.** — (see Körmendi, F. F.) A 59, 4172
- Farmanara, P.** — (see Stert, V.) A 59, R1727
- Farrell, P. M.** — (see O’Kane, T. J.) A 59, 4485
- Faucher, P.** — (see Zhou, H. L.) A 59, 462
- Faustov, R. N., A. Karimkhodzhaev, and A. P. Martynenko** — Evaluation of hadronic vacuum polarization contribution to muonium hyperfine splitting. A 59, 2498(BR)
- Feder, D. L.** — (see Schneider, B. I.) A 59, 2232
- Felfli, Z.** — (see Amusia, M. Ya) A 59, R2544
- Ferrari, Gabriele** — Collisional relaxation in a fermionic gas. A 59, R4125
- Ferrari, L.** — (see Degli Esposti Boschi, C.) A 59, 3270
- Ferreira, Luiz G.** — (see Natalense, Alexandra P. P.) A 59, 879(BR)
- Fiedorowicz, H.** — (see Doron, R.) A 59, 188
- Fielding, H. H.** — (see Ramswell, J. A.) A 59, 2186
- Fink, R. F.** — (see Püttner, R.) A 59, 3415
- Finkelstein, J.** — Ambiguities of arrival-time distributions in quantum theory. A 59, 3218
- Fiordilino, Emilio** — High-order harmonic generation and parametric oscillations. A 59, 876(BR)
- Fisch, N. J.** — (see Savchenko, V. I.) A 59, 708
- Fischer, Charlotte Froese** — (see Bieroń, Jacek) A 59, 4295
- Fitzgerald, R. J.** — (see Sauer, K. L.) A 59, R1746
- Flambaum, V. V., G. F. Gribakin, and C. Harabati** — Analytical calculation of cold-atom scattering. A 59, 1998
- (see Byrnes, T. M. R.) A 59, 3082(BR)
- (see Dzuba, V. A.) A 59, 230
- Fleischhauer, M., R. Unanyan, B. W. Shore, and K. Bergmann** — Coherent population transfer beyond the adiabatic limit: Generalized matched pulses and higher-order trapping states. A 59, 3751
- Fleischhauer, Michael and Susanne F. Yelin** — Radiative atom-atom interactions in optically dense media: Quantum corrections to the Lorentz-Lorenz formula. A 59, 2427
- Flemming, J.** — (see Milori, D. M. B. P.) A 59, 3101(BR)
- Fliesser, Martin and Robert Graham** — Hidden symmetry of collisionless sound of Bose condensates in anisotropic traps. A 59, R27
- Folkmann, F.** — (see Bosselmann, Ph.) A 59, 1874
- Fonseca, E. J. S., C. H. Monken, S. Pádua, and G. A. Barbosa** — Transverse coherence length of down-converted light in the two-photon state. A 59, 1608
- Fontenelle, M. T.** — (see Bardroff, P. J.) A 59, R950
- Fontenelle, Márcia T.** — (see Andersson, Erika) A 59, 3841
- Fontes, Christopher J., Douglas H. Sampson, and Hong Lin Zhang** — Fully relativistic calculations of and fits to 1s ionization cross sections. A 59, 1329
- , Hong Lin Zhang, and Douglas H. Sampson — Inclusion of the generalized Breit interaction in electron-impact excitation of ions to specific magnetic sublevels. A 59, 295
- Forrey, R. C., V. Kharchenko, N. Balakrishnan, and A. Dalgarno** — Vibrational relaxation of trapped molecules. A 59, 2146
- Forrey, Robert C., A. Dalgarno, and Jörg Schmiedmayer** — Determining the electron forward-scattering amplitude using electron interferometry. A 59, R942
- Forster, J. S.** — (see Dauvergne, D.) A 59, 2813
- Fort, C.** — (see Prevedelli, M.) A 59, 886(BR)

- Fortson, E. N.** — (see Romalis, M. V.) A 59, 4547
- Fortunato, Mauro, Gershon Kurizki, and Wolfgang P. Schleich** — Trapping-state restoration in the randomly driven Jaynes-Cummings model by conditional measurements. A 59, 714
- , **Paolo Tombesi, and Wolfgang P. Schleich** — Endoscopic tomography and quantum nondemolition. A 59, 718
- Fowler, Joseph E.** — (see Mercero, José M.) A 59, 4255
- Fox, Ronald F.** — Generalized coherent states. A 59, 3241
- Francis, Matthew R.** — (see Javanainen, Juha) A 59, 649
- Frasier, J. S., V. Celli, and T. Blum** — Resonant processes in a frozen gas. A 59, 4358
- Freedman, S. J.** — (see Bowers, C. J.) A 59, 3513
- (see Rowe, M. A.) A 59, 1869
- Freire, José A. and Daniel P. Arovas** — Collapse of a Bose condensate with attractive interactions. A 59, 1461
- Freitas, Dagoberto S.** — (see Moya-Cessa, H.) A 59, 2518
- Frémont, F.** — (see Bedouet, C.) A 59, 4399
- (see Stolterfoht, N.) A 59, 1262
- Frew, B. J.** — (see Gerton, J.) A 59, 1514
- Frey, M. T., F. B. Dunning, C. O. Reinhold, S. Yoshida, and J. Burgdörfer** — Realization of the kicked atom. A 59, 1434
- Freyberger, Matthias** — (see Straub, Steffen Frank) A 59, 3832
- Friar, J. L., J. Martorell, and D. W. L. Sprung** — Hadronic vacuum polarization and the Lamb shift. A 59, 4061(BR)
- Fricke, B.** — (see Varga, S.) A 59, 4288
- Friedrich, H. and J. Trost** — Accurate WKB wave functions for weakly attractive inverse-square potentials. A 59, 1683(BR)
- Frigo, S. P.** — (see Caldwell, C. D.) A 59, R926
- Fritsch, Wolfgang** — (see Sidky, Emil Y.) A 59, 1994
- Fritzsch, S.** — (see von Busch, F.) A 59, 2030
- Froelich, P.** — (see Jonsell, S.) A 59, 3440
- Froese Fischer, Charlotte** — (see Xi, Jinhua) A 59, 307
- Frolov, Alexei M.** — Bound-state calculations of Coulomb three-body systems. A 59, 4270
- Fu, Jian** — (see Gao, Xiao-Chun) A 59, 55
- Fu, Panming** — (see Wang, Bingbing) A 59, 2894
- Fuchs, Christopher A.** — (see Bennett, Charles H.) A 59, 1070
- Fujikawa, B. K.** — (see Rowe, M. A.) A 59, 1869
- Fujimoto, M.** — (see Honda, K.) A 59, R934
- Fujiwara, Akio and Paul Algoet** — One-to-one parametrization of quantum channels. A 59, 3290
- Funk, David J.** — (see Rislove, D. C.) A 59, 906(E)
- Fursa, D.** — (see Johnson, P. V.) A 59, 439
- Fursa, Dmitry V. and Igor Bray** — Calculation of electron scattering from the ground state of barium. A 59, 282
- and **Igor Bray** — Calculation of electron-photon coincidence parameters for singlet-triplet mixed $4F$ states of helium. A 59, 1297
- (see Ralchenko, Yuri V.) A 59, 1890
- Fuso, F.** — (see Bezuglov, N. N.) A 59, 4340
- Gaarde, M. B., F. Salin, E. Constant, Ph. Balcou, K. J. Schafer, K. C. Kulander, and A. L'Huillier** — Spatiotemporal separation of high harmonic radiation into two quantum path components. A 59, 1367
- Gabrielse, G.** — (see Tseng, C. H.) A 59, 2094
- Gacoin, T.** — (see Lamouche, G.) A 59, 4668
- Gallagher, A.** — (see Paul, B. D.) A 59, 4784
- Gallagher, Alan** — (see Dinneen, Timothy P.) A 59, 1216
- Gallagher, T. F.** — (see Ko, Lung) A 59, 2126
- Gao, Bo** — Repulsive $1/r^3$ interaction. A 59, 2778
- Gao, J. B., S. K. Hwang, and J. M. Liu** — Effects of intrinsic spontaneous-emission noise on the nonlinear dynamics of an optically injected semiconductor laser. A 59, 1582
- Gao, Xiao-Chun, Jian Fu, Jinbo Xu, and Xubo Zou** — Invariant theory and exact solutions for the quantum Dirac field in a time-dependent spatially homogeneous electric field. A 59, 55
- Garay, Luis J.** — (see Egusquiza, Iñigo L.) A 59, 3236
- García-Calderón, Gastón, Alberto Rubio, and Jorge Villavicencio** — Low-energy relativistic effects and nonlocality in time-dependent tunneling. A 59, 1758
- García-Fernández, P.** — (see Cabrillo, C.) A 59, 1025
- Gardner, L. D.** — (see Janzen, P. H.) A 59, 4821(BR)
- Garg, M. L.** — (see Mehta, D.) A 59, 2723
- Gavrielides, A.** — (see Hohl, A.) A 59, 3941
- Gawlik, Wojciech** — (see Pinard, Michel) A 59, 848
- Gedeon, V., V. Lengyel, O. Zatsarinny, and C. A. Kocher** — Electron-impact excitation of the Mg atom from the ground and metastable states: R -matrix calculation with pseudostates. A 59, 2016
- Gedik, Z.** — (see Bayindir, M.) A 59, 1468
- Gehrke, Mark F.** — (see Boffard, John B.) A 59, 2749
- Geissel, H.** — (see Dauvergne, D.) A 59, 2813
- Geist, W., L. You, and T. A. B. Kennedy** — Sympathetic cooling of an atomic Bose-Fermi gas mixture. A 59, 1500
- Gelardi, F. M.** — (see Agnello, S.) A 59, 4087(BR)
- Gel'mukhanov, Faris, Paweł Salek, Timofei Privalov, and Hans Ågren** — Duration of x-ray Raman scattering. A 59, 380
- (see Salek, Paweł) A 59, 1147
- Georgiades, N. Ph., E. S. Polzik, and H. J. Kimble** — Quantum interference in two-photon excitation with squeezed and coherent fields. A 59, 676
- Gerry, Christopher C.** — Generation of optical macroscopic quantum superposition states via state reduction with a Mach-Zehnder interferometer containing a Kerr medium. A 59, 4095
- Gerton, J. M., C. A. Sackett, B. J. Frew, and R. G. Hulet** — Dipolar relaxation collisions in magnetically trapped ^7Li . A 59, 1514
- Gessner, O.** — (see Piancastelli, M. N.) A 59, 300
- Ghosh, Swaralipi, Sanjay Sen, S. S. Bhattacharyya, and Samir Saha** — Nonadiabatic interaction effects on population transfer in H_2 by stimulated Raman transition with partially overlapping laser pulses. A 59, 4475
- Gibson, G. N.** — (see Barnett, R.) A 59, 4843(BR)
- Giedke, G., H. J. Briegel, J. I. Cirac, and P. Zoller** — Lower bounds for attainable fidelities in entanglement purification. A 59, 2641
- Gien, T. T.** — Algebraic coupled-state calculations of positron-hydrogen scattering near the positronium-formation threshold. A 59, 1238
- Gill, P.** — (see Barwood, G. P.) A 59, R3178
- Gisin, Boris V.** — Second-harmonic generation in a plane nonlinear optical antiwaveguide. A 59, 3120(BR)
- Gisin, N.** — (see Bechmann-Pasquinucci, H.) A 59, 4238
- (see Tittel, W.) A 59, 4150
- Glans, P.** — (see Magnuson, M.) A 59, 4281
- Glauber, R. J.** — (see Naraschewski, M.) A 59, 4595
- Glauber, Roy J.** — (see Cahill, Kevin E.) A 59, 1538
- Godone, Aldo, Filippo Levi, and Jacques Vanier** — Coherent microwave emission in cesium under coherent population trapping. A 59, R12
- Godun, R. M., C. L. Webb, M. K. Oberthaler, G. S. Summy, and K. Burnett** — Efficiencies of adiabatic transfer in a multistate system. A 59, 3775
- Goidenko, Igor** — (see Labzowsky, Leonti) A 59, 2707
- Goldstein, Elena V. and Pierre Meystre** — Phase conjugation of multicomponent Bose-Einstein condensates. A 59, 1509
- and **Pierre Meystre** — Quantum theory of atomic four-wave mixing in Bose-Einstein condensates. A 59, 3896
- Golestanian, Ramin** — (see Miri, Faez) A 59, 2291
- Golub, R.** — (see McKinsey, D. N.) A 59, 200
- Gómez-Camacho, J.** — (see Carvajal, M.) A 59, 1852
- (see Carvajal, M.) A 59, 3462
- Gontier, Yves** — Atom-atom correlations induced by resonant coupling with a laser field. A 59, 4747
- Gonzalez, Catalina** — (see Melchert, F.) A 59, 4379
- González Ureña, A.** — (see Stert, V.) A 59, R1727
- Gorceix, O.** — (see Maréchal, E.) A 59, 4636
- Gordon, D. and C. M. Savage** — Creating macroscopic quantum superpositions with Bose-Einstein condensates. A 59, 4623

- Görling, Andreas** — Density-functional theory beyond the Hohenberg-Kohn theorem. A 59, 3359
- Goscinski, Osvaldo** — (see Carlsen, Henrik) A 59, 1063
- Gotoda, M.** — (see Tsukada, N.) A 59, 3862
- Gou, S.-C.** — (see Huang, W.-J.) A 59, 4608
- Gould, P. L.** — (see Bohn, John L.) A 59, 3660
- Grabbe, S. R.** — (see Liao, C.) A 59, 2773
- Graham, Robert** — (see Csordás, András) A 59, 1477
 — (see Fliesser, Martin) A 59, R27
 — (see Reidl, Jürgen) A 59, 3816
- Grandin, J. P.** — (see Stolterfoht, N.) A 59, 1262
- Grant, Ian P.** — (see Bieron, Jacek) A 59, 4295
- Greene, Chris H.** — (see Bohn, John L.) A 59, 3660
 — (see Esry, B. D.) A 59, 1457
- Greentree, Andrew D., Changjiang Wei, and Neil B. Manson**
 — Polychromatic excitation of a two-level system. A 59, 4083(BR)
- Greenwood, J. B., Steven J. Smith, A. Chutjian, and E. Pollack**
 — Experimental cross sections for electron excitation of the $2s\ ^2S \rightarrow 2p\ ^2P$ transition in C^{3+} . A 59, 1348
- Greiner, W.** — (see Eichmann, U.) A 59, 1223
- Grether, M.** — (see Bedouet, C.) A 59, 4399
 — (see Stolterfoht, N.) A 59, 1262
- Gribakin, G. F.** — (see Flambaum, V. V.) A 59, 1998
- Griem, Hans R.** — (see Ralchenko, Yuri V.) A 59, 1890
- Grieser, M.** — (see Baer, A.) A 59, 1865
- Grobe, R.** — (see Braun, J. W.) A 59, 604
- Groses, Thomas, Bernard Piraux, and Robin Shakeshaft**
 — Rayleigh and Raman scattering from helium for wavelengths down to 16 nm. A 59, 3088(BR)
- Gross, B.** — (see Huber, A.) A 59, 1844
- Grosser, J., T. Menzel, and A. K. Belyaev** — Approach to electron translation in low-energy atomic collisions. A 59, 1309
- Grozdanov, Tasko P.** — (see Suno, Hiroya) A 59, 524
- Grudka, A.** — (see Parzyński, R.) A 59, 893(BR)
- Gu, J.-P., G. Hirsch, R. J. Buenker, M. Kimura, C. M. Dutta, and P. Nordlander** — Charge-transfer processes in collisions of H^+ ions with phosphorus atoms at low energies. A 59, 405
- Guerra, J. M.** — (see Encinas-Sanz, F.) A 59, 4764
- Guet, C.** — (see Benichou, E.) A 59, R1
 — (see Plagne, L.) A 59, 4461
- Guibal, S.** — (see Maréchal, E.) A 59, 4636
- Gulley, M. S.** — (see Rislove, D. C.) A 59, 906(E)
- Gulyás, L.** — (see Stolterfoht, N.) A 59, 1262
- Guo, Guang-Can** — (see Duan, Lu-Ming) A 59, 4058(BR)
 — (see Yang, Chui-Ping) A 59, 4217
- Guo, J.** — (see Magnuson, M.) A 59, 4281
- Gurjar, R. S. and K. K. Sharma** — Temperature effects in the hyperfine spectrum of the $D1$ transition of sodium. A 59, 512
- Gusein-zade, N.** — (see Amiranashvili, Sh.) A 59, 3098(BR)
- Gutiérrez-Castrejón, R.** — (see Encinas-Sanz, F.) A 59, 4764
- Gutsev, Gennady L., S. N. Khanna, B. K. Rao, and P. Jena** — FeO_4 : A unique example of a closed-shell cluster mimicking a superhalogen. A 59, 3681
- Gwinner, G.** — (see Bowers, C. J.) A 59, 3513
 — (see Rowe, M. A.) A 59, 1869
- Habicht, K.** — (see McKinsey, D. N.) A 59, 200
- Hachemi, H.** — (see Maamache, M.) A 59, 3124(C)
- Hadjagapiou, Ioannis A.** — (see Papadopoulos, George J.) A 59, 3127(C)
- Haeffler, Gunnar, Igor Yu. Kiyan, Dag Hanstorp, Benjamin J. Davies, and David J. Pegg** — Observation of resonance structure in the Na^+ photodetachment cross section. A 59, 3655
- Hagmann, S.** — (see Liao, C.) A 59, 2773
- Hahne, J.** — (see Carroll, T. X.) A 59, 3386
- Hakioğlu, T.** — Operational approach in the weak-field measurement of polarization fluctuations. A 59, 1586
- Hakuta, K.** — (see Le Kien, Fam) A 59, 2458
- Halfmann, T.** — (see Yatsenko, L. P.) A 59, 2926
- Hall, John L.** — (see Dinneen, Timothy P.) A 59, 1216
- Hall, Michael J. W.** — Universal geometric approach to uncertainty, entropy, and information. A 59, 2602
- Hallman, S.** — (see Caldwell, C. D.) A 59, R926
- Ham, B. S., P. R. Hemmer, and M. S. Shahriar** — Efficient phase conjugation via two-photon coherence in an optically dense crystal. A 59, R2583
- Hamada, Akira** — (see Tanaka, Hiroshi) A 59, 2006
- Hammann, Théophile F.** — (see Dekar, Liès) A 59, 107
- Hammond, T. D.** — (see Pritchard, D. E.) A 59, 4641
- Handy, Nicholas C.** — (see Chan, Garnet Kin-Lic) A 59, 2670
 — (see Kin-Lic Chan, Garnet) A 59, 3075(BR)
 — (see Lee, Aaron M.) A 59, 209
- Hänsch, T. W.** — (see Huber, A.) A 59, 1844
- Hansen, Klavs** — (see Brockhaus, Peter) A 59, 495
- Hanstorp, Dag** — (see Haeffler, Gunnar) A 59, 3655
- Happer, W.** — (see Appelt, S.) A 59, 2078
 — (see Sauer, K. L.) A 59, R1746
- Harabati, C.** — (see Flambaum, V. V.) A 59, 1998
- Hardy, Lucien and Wim van Dam** — Quantum communication using a nonlocal Zeno effect. A 59, 2635
- Hare, J.** — (see Protsenko, I.) A 59, 1667
- Hari Dass, N. D. and Tabish Qureshi** — Critique of protective measurements. A 59, 2590
- Harris, S. E.** — (see Xia, Hui) A 59, R3190
- Hartmann, F. J.** — (see Daniel, H.) A 59, 3343
 — (see Torii, H. A.) A 59, 223
- Hartmann, S. R.** — (see Lvovsky, A. I.) A 59, 4052
- Hartmann, W.** — (see Kallmann, U.) A 59, 814
- Hasan, A.A.** — (see Merabet, H.) A 59, R3158
- Hasegawa, Y. and G. Badurek** — Noncommuting spinor rotation due to balanced geometrical and dynamical phases. A 59, 4614
- Hatsagortsian, K. Z.** — (see Avetissian, H. K.) A 59, 549
- Haugen, Harold K.** — (see Norquist, Peggy L.) A 59, 1896
- Hauser, P.** — (see Kirch, K.) A 59, 3375
- Hawton, Margaret** — Photon position operator with commuting components. A 59, 954
 — Photon wave functions in a localized coordinate space basis. A 59, 3223
- Hayano, R. S.** — (see Torii, H. A.) A 59, 223
- He, Lin-Sheng** — (see Zhang, Zhi-Ming) A 59, 808
- Heber, O.** — (see Wolf, A.) A 59, 267
- Hegerfeldt, Gerhard C.** — (see Beige, Almut) A 59, 2385
- Heinzen, D. J.** — (see Xu, G.) A 59, R922
- Heiser, F.** — (see Piancastelli, M. N.) A 59, 300
- Helmerson, K.** — (see Miranda, S. G.) A 59, 882(BR)
- Hemmer, P. R.** — (see Ham, B. S.) A 59, R2583
- Hempelmann, A.** — (see Piancastelli, M. N.) A 59, 300
- Henderson, M., R. E. Irving, L. J. Curtis, I. Martinson, T. Brage, and P. Bengtsson** — Lifetimes of the $5d^9 6p$ levels in Hg III. A 59, 4068(BR)
- Hendriks, R. F. M., M. P. van Exter, and J. P. Woerdman** — How the carrier momentum influences the polarization properties of a vertical-cavity semiconductor laser. A 59, 765
- Hennecart, D.** — (see Stolterfoht, N.) A 59, 1262
- Henz, S. and J. Herrmann** — Self-channeling and pulse shortening of femtosecond pulses in multiphoton-ionized dispersive dielectric solids. A 59, 2528
- Hepburn, J. W.** — (see Shiell, R. C.) A 59, 2903
- Hergenhahn, U.** — (see Piancastelli, M. N.) A 59, 1336
- Hering, Ph. and C. Cornaggia** — Coulomb explosion of N_2 and CO_2 using linearly and circularly polarized femtosecond laser pulses. A 59, 2836
- Hernández, E. S.** — (see Capuzzi, P.) A 59, 1488
 — (see Capuzzi, P.) A 59, 3902
- Herrmann, J.** — (see Henz, S.) A 59, 2528
- Hess, Ortwin** — (see Hofmann, Holger F.) A 59, 2342
- Hibbert, A.** — (see Zhou, H. L.) A 59, 462
- Hillery, M.** — (see Drummond, P. D.) A 59, 691

- Hillery, Mark, Vladimír Bužek, and André Berthiaume** — Quantum secret sharing. A **59**, 1829
- Hinderthür, H., F. Ruschewitz, H.-J. Lohe, S. Lechte, K. Sengstock, and W. Ertmer** — Time-domain high-finesse atom interferometry. A **59**, 2216
- Hino, Masahiro, Norio Achiwa, Seiji Tasaki, Toru Ebisawa, Takeshi Kawai, Tsunekazu Akiyoshi, and Dai Yamazaki** — Measurement of Larmor precession angles of tunneling neutrons. A **59**, 2261
- Hinze, U.** — (see Babin, S. A.) A **59**, 1355
- Hirakawa, Yasuyuki** — (see Kawano, Hiroyuki) A **59**, 4703
- Hirata, M.** — (see Baştuğ, T.) A **59**, 3690
- Hirota, O.** — (see Holevo, A. S.) A **59**, 1820
- Hirota, Osamu** — (see Sasaki, Masahide) A **59**, 3325
- Hirsch, G.** — (see Gu, J.-P.) A **59**, 405
— (see Wright, J. S.) A **59**, 4512
- Ho, Kai-Ming** — (see Jackson, Koblar) A **59**, 3685
- Ho, Tin-Lun** — (see Yip, S.-K.) A **59**, 4653
- Ho, Y. K. and Zong-Chao Yan** — Calculation of the $\text{He}^- 1s2s^2 2S$ resonance using fully correlated Hylleraas functions. A **59**, R2559
— (see Wang, J. X.) A **59**, 4522
— (see Yan, Zong-Chao) A **59**, 2697
- Hofmann, Holger F. and Ortwin Hess** — Quantum Maxwell-Bloch equations for spatially inhomogeneous semiconductor lasers. A **59**, 2342
- Hogervorst, Wim** — (see Kips, Annemieke) A **59**, 2948
- Hohl, A., A. Gavrielides, T. Erneux, and V. Kovanis** — Quasiperiodic synchronization for two delay-coupled semiconductor lasers. A **59**, 3941
- Holas, A.** — Properties of the Goedecker-Umrigar functional for the many-electron problem and its generalization. A **59**, 3454
- Holevo, A. S., M. Sohma, and O. Hirota** — Capacity of quantum Gaussian channels. A **59**, 1820
- Holland, M.** — (see Walser, R.) A **59**, 3878
— (see Williams, J.) A **59**, R31
- Hollberg, L.** — (see Kitching, J.) A **59**, 4685
- Hollifield, J. J. and J. N. L. Connor** — Theory of elastic scattering in strongly absorptive collisions: Application of the Fuller nearside-farside method. A **59**, 1694(BR)
- Holton, W. C.** — (see Sanders, G. D.) A **59**, 1098
- Holzmann, Markus, Werner Krauth, and Martin Naraschewski** — Precision Monte Carlo test of the Hartree-Fock approximation for a trapped Bose gas. A **59**, 2956
- Honda, K., Y. Takahashi, T. Kuwamoto, M. Fujimoto, K. Toyoda, K. Ishikawa, and T. Yabuzaki** — Magneto-optical trapping of Yb atoms and a limit on the branching ratio of the $^1P_1$ state. A **59**, R934
— (see Takahashi, Y.) A **59**, 3761
- Hong, Q.** — (see Ramsell, J. A.) A **59**, 2186
- Honkimäki, V.** — (see Spielberger, L.) A **59**, 371
- Hope, J. J.** — (see Moy, G. M.) A **59**, 667
- Hori, M.** — (see Torii, H. A.) A **59**, 223
- Horn, D.** — (see Bosselmann, Ph.) A **59**, 1874
- Horne, M., I. Jex, and A. Zeilinger** — Schrödinger wave functions in strong periodic potentials with applications to atom optics. A **59**, 2190
- Horodecki, Michał and Paweł Horodecki** — Reduction criterion of separability and limits for a class of distillation protocols. A **59**, 4206
— (see Horodecki, Ryszard) A **59**, 1799
- Horodecki, Paweł** — (see Horodecki, Michał) A **59**, 4206
— (see Horodecki, Ryszard) A **59**, 1799
- Horodecki, Ryszard, Michał Horodecki, and Paweł Horodecki** — Entanglement processing and statistical inference: The Jaynes principle can produce fake entanglement. A **59**, 1799
- Horváth, D.** — (see Torii, H. A.) A **59**, 223
- Horvath, G. Zs. K. and R. C. Thompson** — Laser cooling of ions stored in a Penning trap: A phase-space picture. A **59**, 4530
- Hosaka, K.** — (see Tawara, H.) A **59**, 3095(BR)
- Hosokawa, Teruo** — (see Yamada, Koji) A **59**, 3673
- Hou, Xi-Wen** — (see Dong, Shi-Hai) A **59**, 995
- Houbiers, M. and H. T. C. Stoof** — Cooper-pair formation in trapped atomic Fermi gases. A **59**, 1556
- Höyer, Peter** — Conjugated operators in quantum algorithms. A **59**, 3280
- Hoyuelos, Miguel, Alice Sinatra, Pere Colet, Luigi Lugiato, and Maxi San Miguel** — Spatial pump-meter quantum correlations in a vectorial Kerr-medium model. A **59**, 1622
- Hsu, C.-W.** — (see Shiell, R. C.) A **59**, 2903
- Hu, Chi-Yu** — Multichannel $e^+ + \text{H}$ calculations via the modified Faddeev equations. A **59**, 4813(BR)
- Hu, Y. F.** — (see Püttner, R.) A **59**, 4438
- Huang, G.** — (see Barwood, G. P.) A **59**, R3178
- Huang, M.-T., R. Wehlitz, Y. Azuma, L. Pibida, I. A. Sellin, J. W. Cooper, M. Koide, H. Ishijima, and T. Nagata** — Single and double photoionization of lithium. A **59**, 3397
- Huang, W., U. Eichmann, and W. Sandner** — Autoionization distribution of atomic high doubly excited states: A “breathing spheres” approach. A **59**, 2744
- Huang, W.-J. and S.-C. Gou** — Ground-state energy of the spinor Bose-Einstein condensate. A **59**, 4608
- Huber, A., B. Gross, M. Weitz, and T. W. Hänsch** — High-resolution spectroscopy of the $1S$ - $2S$ transition in atomic hydrogen. A **59**, 1844
- Huber, B. A.** — (see Benichou, E.) A **59**, R1
— (see Opitz, J.) A **59**, 3562
- Huelga, S. F.** — (see Cirac, J. I.) A **59**, 4249
— (see Plenio, M. B.) A **59**, 2468
- Huffman, P. R.** — (see McKinsey, D. N.) A **59**, 200
- Hulet, R. G.** — (see Gerton, J. M.) A **59**, 1514
- Huss, A.** — (see Korsunsky, E. A.) A **59**, 2302
- Husson, X.** — (see Bedouet, C.) A **59**, 4399
— (see Stolterfoht, N.) A **59**, 1262
- Hwang, S. K.** — (see Gao, J. B.) A **59**, 1582
- Ignatov, A.** — (see Amiranashvili, Sh.) A **59**, 3098(BR)
- Ikushima, T.** — (see Kitano, M.) A **59**, 3710
- Imanishi, N.** — (see Itoh, A.) A **59**, 4428
- Imasaka, Totaro** — (see Kawano, Hiroyuki) A **59**, 4703
- Imoto, Nobuyuki** — (see Karlsson, Anders) A **59**, 162
— (see Mitsunaga, Masaharu) A **59**, 4773
— (see Shimizu, Kaoru) A **59**, 1092
— (see Yamashita, Makoto) A **59**, 2243
- Indelicato, P.** — (see Kirch, K.) A **59**, 3375
- Inguscio, M.** — (see Prevedelli, M.) A **59**, 886(BR)
- Inoue-Ushiyama, Atsuko and Kazuo Takatsuka** — Semiclassical theory for the Maslov-type wave packet: Hierarchy below the semiclassical Feynman kernel. A **59**, 3256
- Ionescu, Dorin C., Allan H. Sørensen, and Ali Belkacem** — Inner-shell photoionization at relativistic energies. A **59**, 3527
- Irnich, H.** — (see Dauvergne, D.) A **59**, 2813
- Irving, R. E.** — (see Henderson, M.) A **59**, 4068(BR)
- Isayama, T., Y. Takahashi, N. Tanaka, K. Toyoda, K. Ishikawa, and T. Yabuzaki** — Observation of Larmor spin precession of laser-cooled Rb atoms via paramagnetic Faraday rotation. A **59**, 4836(BR)
- Ishijima, H.** — (see Huang, M.-T.) A **59**, 3397
- Ishikawa, K.** — (see Honda, K.) A **59**, R934
— (see Isayama, T.) A **59**, 4836(BR)
- Ishikawa, T.** — (see Torii, H. A.) A **59**, 223
- Isoshima, Tomoya and Kazushige Machida** — Vortex stabilization in Bose-Einstein condensate of alkali-metal atom gas. A **59**, 2203
- Isu, T.** — (see Tsukada, N.) A **59**, 2852
— (see Tsukada, N.) A **59**, 3862
- Itoh, A., H. Tsuchida, T. Majima, and N. Imanishi** — Ionization and fragmentation of C_{60} in charge-transfer collisions of 2-MeV lithium ions. A **59**, 4428
- Ivanov, M. V.** — (see Schmelcher, P.) A **59**, 3424
- Ivanov, M.Yu.** — (see Wright, J. S.) A **59**, 4512

- Jack, M. W., M. J. Collett, and D. F. Walls** — Non-Markovian quantum trajectories for spectral detection. A 59, 2306
- , **M. Naraschewski, M. J. Collett, and D. F. Walls** — Markov approximation for the atomic output coupler. A 59, 2962
- Jackson, Koblar, Mark Pederson, Cai-Zhuang Wang, and Kai-Ming Ho** — Calculated polarizabilities of intermediate-size Si clusters. A 59, 3685
- Jacobs, K.** — (see Bose, S.) A 59, 3204
- Jacquet, D.** — (see Brunelle, A.) A 59, 4456
- Jacquet, S.** — (see Opitz, J.) A 59, 3562
- Jagutzki, O.** — (see Spielberger, L.) A 59, 371
- Jakob, M. and G. Yu. Kryuchkyan** — Photon correlation in an ion-trap system. A 59, 2111
- Jalbert, Ginette** — (see Barbatti, M.) A 59, 1988
- Jang, Ju-Seog** — Optical interaction-free measurement of semitransparent objects. A 59, 2322
- Jansen, H. J. F.** — (see Erkoç, Ş.) A 59, 2490(BR)
- Janszky, J.** — (see Kis, Z.) A 59, R39
- Janzen, P. H., L. D. Gardner, D. B. Reisenfeld, D. W. Savin, J. L. Kohl, and K. Bartschat** — Reevaluation of experiments and new theoretical calculations for electron-impact excitation of C^{3+} . A 59, 4821(BR)
- Jarocki, R.** — (see Doron, R.) A 59, 188
- Jauhiainen, J.** — (see Aksela, H.) A 59, R2563
- Javanainen, Juha and Matt Mackie** — Coherent photoassociation of a Bose-Einstein condensate. A 59, R3186
- , **Janne Ruostekoski, Bjarne Vestergaard, and Matthew R. Francis** — One-dimensional modeling of light propagation in dense and degenerate samples. A 59, 649
- Jena, P.** — (see Gutsev, Gennady L.) A 59, 3681
- Jennings, D. A.** — (see Deng, J. Q.) A 59, 773
- Jeung, Gwang-Hi** — (see Yiannopoulou, Alexandra) A 59, 1178
- Jex, I.** — (see Horne, M.) A 59, 2190
- Jimenez, J.** — (see Stert, V.) A 59, R1727
- Jiménez-Mier, J.** — Calculation of the dipole-allowed excitations of the $3p^4s4p$ and $3p^43d4p$ configurations in argon. A 59, 1690(BR)
- Jitschin, W., R. Stötzl, T. Papp, and M. Sarkar** — Coster-Kronig, fluorescence, and Auger yields of the 47Ag L subshells measured through synchrotron photoionization. A 59, 3408
- Johnson, P. V., B. Eves, P. W. Zetner, D. Fursa, and I. Bray** — Electron-impact excitation of the ($\dots 6s5d\ ^1D_2$) to ($\dots 6s6p\ ^1P_1$) transition in barium. A 59, 439
- Johnson, W. R., A. Derevianko, K. T. Cheng, Valery K. Dolmatov, and Steven T. Manson** — Nondipole effects in the photoionization of neon: Random-phase approximation. A 59, 3609
- Jonathan, D.** — (see Murao, M.) A 59, 156
- Jones, Matthew D., Gerardo Ortiz, and David M. Ceperley** — Spectrum of neutral helium in strong magnetic fields. A 59, 2875
- Jones, R. R.** — (see Campbell, M. B.) A 59, R4117
- Jonsell, S., J. Wallenius, and P. Froelich** — Influence of $pp\pi$ ions on pion absorption in H_2 . A 59, 3440
- Joosten, K.** — (see Dutra, S. M.) A 59, 4699
- Jost, Bradley M.** — (see Peřina, Jan, Jr.) A 59, 2359
- Journel, L.** — (see Zhou, H. L.) A 59, 462
- Jozsa, Richard** — (see Sasaki, Masahide) A 59, 3325
- Julienne, P. S.** — (see Band, Y. B.) A 59, 3823
- (see Orzel, C.) A 59, 1926
- Julienne, Paul S.** — (see Machholm, Mette) A 59, R4113
- Jung, R.** — (see Schumann, R.) A 59, 2120
- Jungen, Ch.** — (see Texier, F.) A 59, 412
- Kaige, Wang, Pan Qiuli, and Yu Xingqi** — Spontaneous rotation of laser patterns. A 59, 803
- Kaindl, G.** — (see Püttner, R.) A 59, 3415
- Kalkbrenner, T.** — (see Tittonen, I.) A 59, 1038
- Kallmann, U., S. Brattke, and W. Hartmann** — Propagation of resonant 0π pulses in rubidium. A 59, 814
- Kamiński, J. Z. and F. Ehlötzky** — Asymmetries and dark angular windows in relativistic free-free transitions in a powerful laser field. A 59, 2105
- Kandler, T.** — (see Dauvergne, D.) A 59, 2813
- Kanter, E. P.** — (see Schäffer, H. W.) A 59, 245
- Kaplan, A. E.** — (see Shkolnikov, P. L.) A 59, R938
- Kappler, Bernd** — (see Breuer, Heinz-Peter) A 59, 1633
- Kar, Sabyasachi and Puspajit Mandal** — Multichannel Schwinger's principle for rearrangement collisions: Positronium formation in positron-hydrogen collisions. A 59, 1913
- Karaganov, V., Igor Bray, and P. J. O. Teubner** — Electron scattering from optically pumped lithium atoms. A 59, 4407
- Karimkhodzhaev, A.** — (see Faustov, R. N.) A 59, 2498(BR)
- Karlsson, Anders, Masato Koashi, and Nobuyuki Imoto** — Quantum entanglement for secret sharing and secret splitting. A 59, 162
- Karvonen, J., A. Kivimäki, H. Aksela, S. Aksela, R. Camilloni, L. Avaldi, M. Coreno, M. de Simone, and K. C. Prince** — Angular distribution in xenon $M_{4,5}N_{4,5}N_{4,5}$ Auger decay. A 59, 315
- (see Coreno, M.) A 59, 2494(BR)
- (see Kylli, T.) A 59, 4071(BR)
- (see Püttner, R.) A 59, 4438
- Karwasz, Grzegorz P., Roberto S. Brusa, Andrea Piazza, and Antonio Zecca** — Total cross sections for electron scattering on chloromethanes: Formulation of the additivity rule. A 59, 1341
- Kasevich, M. A.** — (see Anderson, B. P.) A 59, R938
- Kasperovich, Vitaly** — (see Brockhaus, Peter) A 59, 495
- Kaszlikowski, Dagomir** — (see Żukowski, Marek) A 59, 3200
- Kato, Daiji** — (see Miyashita, Naoyuki) A 59, 4385
- Kawai, Takeshi** — (see Hino, Masahiro) A 59, 2261
- Kawano, Hiroyuki, Tomonori Mori, Yasuyuki Hirakawa, and Totaro Imasaka** — Use of phase-locking in four-wave Raman mixing for generating ultrashort optical pulses. A 59, 4703
- Keeler, M. L. and T. J. Morgan** — Core-scattered combination orbits in the $M=0$ Stark spectrum of helium. A 59, 4559
- Keller, Arne** — (see Dion, Claude M.) A 59, 1382
- Keller, J.-C.** — (see Maréchal, E.) A 59, 4636
- Keller, S., R. M. Dreizler, L. U. Ancarani, H. Ast, H. R. J. Walters, and C. T. Whelan** — Interpretation of relativistic ($e, 2e$) experiments in coplanar asymmetric geometry: Atomic-number-dependent effects. A 59, 1284
- Kellman, Michael E.** — Effective Hamiltonian for atomic collective spectra. A 59, 1102
- Kempgens, B.** — (see Piancastelli, M. N.) A 59, 1336
- Kennedy, T. A. B.** — (see Geist, W.) A 59, 1500
- Keto, John W.** — (see Bhatia, Parminder S.) A 59, 4045
- Ketzer, B.** — (see Torii, H. A.) A 59, 223
- Khajuria, Y. and D. N. Tripathi** — Geometry effects on the ($e, 2e$) triple differential cross sections of Li^+ , Na^+ , and K^+ . A 59, 1197
- Khanna, S. N.** — (see Gutsev, Gennady L.) A 59, 3681
- Kharchenko, V.** — (see Forrey, R. C.) A 59, 2146
- Khaykovich, Lev** — (see Ozeri, Roe) A 59, R1750
- Khayyat, Kh.** — (see Spielberger, L.) A 59, 371
- Kijowski, Jerzy** — Comment on "Arrival time in quantum mechanics" and "Time of arrival in quantum mechanics". A 59, 897(C)
- Kim, D., C. Tóth, and C. P. J. Barty** — Population inversion between atomic inner-shell vacancy states created by electron-impact ionization and Coster-Kronig decay. A 59, R4129
- Kim, H. A., H. S. Moon, J. B. Kim, A. S. Choe, and J. Lee** — Expanded concept of the adiabatic population transfer using dressed states. A 59, 1404
- Kim, J. B.** — (see Kim, H. A.) A 59, 1404
- Kim, Jongseob, Jin Yong Lee, Kyung Seok Oh, Jung Mee Park, Sik Lee, and Kwang S. Kim** — Quantum-mechanical probabilistic structure of the water dimer with an excess electron. A 59, R930
- Kim, K. W.** — (see Sanders, G. D.) A 59, 1098
- Kim, Kisik** — Nonclassical measure of nonclassical properties. A 59, 1566
- Kim, Kwang S.** — (see Kim, Jongseob) A 59, R930
- Kim, M. S. and G. S. Agarwal** — Reconstruction of an entangled state in cavity QED. A 59, 3044

- Kimble, H. J.** — (see Georgiades, N. Ph.) A 59, 676
 — (see van Enk, S. J.) A 59, 2659
- Kimura, M.** — (see Gu, J.-P.) A 59, 405
- Kimura, Mineo** — (see Tanaka, Hiroshi) A 59, 2006
- Kin-Lic Chan, Garnet and Nicholas C. Handy** — Optimized Lieb-Oxford bound for the exchange-correlation energy. A 59, 3075(BR)
- Kips, Annemieke, Wim Vassen, and Wim Hogervorst** — Bifurcations of closed orbits in singlet helium Stark spectra. A 59, 2948
- Kirch, K., D. Abbott, B. Bach, P. Hauser, P. Indelicato, F. Kottmann, J. Missimer, P. Patte, R. T. Siegel, L. M. Simons, and D. Viel** — Muonic cascades in isolated low-Z atoms and molecules. A 59, 3375
- Kirsch, R.** — (see Dauvergne, D.) A 59, 2813
- Kis, Z., T. Kiss, J. Janszky, P. Adam, S. Wallentowitz, and W. Vogel** — Local sampling of phase-space distributions by cascaded optical homodyning. A 59, R39
- Kiss, T.** — (see Kis, Z.) A 59, R39
- Kitajima, Masashi** — (see Tanaka, Hiroshi) A 59, 2006
- Kitano, M., K. Yamane, and T. Ikushima** — Spin manipulation by absorption-free optical pumping. A 59, 3710
- Kitching, J. and L. Hollberg** — Interference-induced optical gain without population inversion in cold, trapped atoms. A 59, 4685
- Kivimäki, A.** — (see Aksela, H.) A 59, R2563
 — (see Karvonen, J.) A 59, 315
 — (see Kylli, T.) A 59, 4071(BR)
 — (see Piancastelli, M. N.) A 59, 1336
 — (see Püttner, R.) A 59, 4438
- Kiyan, Igor Yu.** — (see Haeffler, Gunnar) A 59, 3655
- Klein, H. A.** — (see Barwood, G. P.) A 59, R3178
- Kleppner, Daniel** — (see Cesar, Claudio L.) A 59, 4564
- Klimenko, Victor** — (see Ko, Lung) A 59, 2126
- Klimov, V. V., M. Ducloy, and V. S. Letokhov** — Strong interaction between a two-level atom and the whispering-gallery modes of a dielectric microsphere: Quantum-mechanical consideration. A 59, 2996
- Clucharev, A. N.** — (see Bezuglov, N. N.) A 59, 4340
- Knight, P. L.** — (see Bose, S.) A 59, 3204
 — (see Plenio, M. B.) A 59, 2468
 — (see Wallentowitz, S.) A 59, 531
- Knize, R. J.** — (see Patterson, B. M.) A 59, 2508(BR)
 — (see Takekoshi, T.) A 59, R5
- Knöckel, Horst** — (see Elbs, Michael) A 59, 3665
- Knoll, L.** — (see Baer, A.) A 59, 1865
- Knöll, L., S. Scheel, E. Schmidt, D.-G. Welsch, and A. V. Chizhov** — Quantum-state transformation by dispersive and absorbing four-port devices. A 59, 4716
 — (see Dakna, M.) A 59, 1658
- Knöll, Ludwig** — (see Schmidt, Eduard) A 59, 2442
- Ko, Lung, Victor Klimenko, and T. F. Gallagher** — Enhancement of dielectronic recombination by an electric field. A 59, 2126
- Koashi, Masato** — (see Karlsson, Anders) A 59, 162
 — (see Yamashita, Makoto) A 59, 2243
- Kobayashi, N.** — (see Sanderson, J. H.) A 59, 4817(BR)
- Kobayashi, Tohru** — (see Matsuo, Yukari) A 59, 2071
- Kocharovskaya, Olga** — (see Kozlov, Victor V.) A 59, 3986
- Kocher, C. A.** — (see Gedeon, V.) A 59, 2016
- Kodre, A.** — (see Padežnik Gomilšek, J.) A 59, 3078(BR)
- Koga, Toshikatsu, Hisashi Matsuyama, E. Romera, J. S. Dehesa, and Ajit J. Thakkar** — Electron-momentum densities of singly charged ions. A 59, 4805(BR)
- Kohl, J. L.** — (see Janzen, P. H.) A 59, 4821(BR)
- Koide, M.** — (see Huang, M.-T.) A 59, 3397
- Kokorowski, D. A.** — (see Pritchard, D. E.) A 59, 4641
- Kolakowska, A., M. S. Pindzola, and D. R. Schultz** — Total electron loss, charge transfer, and ionization in proton-hydrogen collisions at 10–100 keV. A 59, 3588
- Komara, R. A., W. G. Sturru, D. H. Pollack, and W. R. Cochran** — Dalgarno-Lewis method for second-order energies of Rydberg states of neon. A 59, 251
- Kompa, K.-L.** — (see Witzel, B.) A 59, 3141(E)
- Koncz, Cs.** — (see Stolterfoht, N.) A 59, 1262
- Körmendi, F. F. and Gy. Farkas** — Quantum electrodynamics of strong-field Compton scattering and its ponderomotive and drift energies. A 59, 4172
- Korobov, S. V.** — (see Korobov, V. I.) A 59, 3394
- Korobov, V. I., D. Bakalov, and H. J. Monkhorst** — Variational expansion for antiprotonic helium atoms. A 59, R919
 — and S. V. Korobov — Bethe logarithm for the 1^1S and 2^1S states of helium. A 59, 3394
- Korsunsky, E. A., N. Leinfellner, A. Huss, S. Baluschev, and L. Windholz** — Phase-dependent electromagnetically induced transparency. A 59, 2302
- Kottmann, F.** — (see Kirch, K.) A 59, 3375
- Kovalenko, S. A., A. L. Dobryakov, J. Ruthmann, and N. P. Ernsting** — Femtosecond spectroscopy of condensed phases with chirped supercontinuum probing. A 59, 2369
- Kovanis, V.** — (see Hohl, A.) A 59, 3941
- Kozlov, V. V., P. G. Polynkin, and M. O. Scully** — Resonant Raman amplification of ultrashort pulses in a V-type medium. A 59, 3060
- Kozlov, Victor V., Olga Kocharovskaya, and Marlan O. Scully** — Effective two-level Maxwell-Bloch formalism and coherent pulse propagation in a driven three-level medium. A 59, 3986
- Krause, M. O.** — (see Caldwell, C. D.) A 59, R926
- Krauth, Werner** — (see Holzmänn, Markus) A 59, 2956
- Kresin, Vitaly V.** — (see Brockhaus, Peter) A 59, 495
- Kristöfel, P.** — (see Yoshida, S.) A 59, R4121
- Kruppa, A. T. and K. Arai** — Resonances and the continuum level density. A 59, 3556
- Krutitsky, Konstantin V., Frank Burgbacher, and Jürgen Audretsch** — Local-field approach to the interaction of an ultracold dense Bose gas with a light field. A 59, 1517
- Kryuchkyan, G. Yu.** — (see Jakob, M.) A 59, 2111
- Kuchiev, M. Yu. and V. N. Ostrovsky** — Adiabatic theory of electron detachment from negative ions in a two-color laser field. A 59, 2844
- Kuetgens, U.** — (see von Busch, F.) A 59, 2030
- Kuhn, A.** — (see Bouchoule, I.) A 59, R8
- Kukkk, E.** — (see Carroll, T. X.) A 59, 3386
- Kulander, K. C.** — (see Gaarde, M. B.) A 59, 1367
- Kulsh, A.** — (see Bersons, I.) A 59, 1399
- Kumakura, M.** — (see Torii, H. A.) A 59, 223
- Kumar, Anil and Bidhan C. Saha** — State-selective charge transfer in slow collisions of partially stripped He-like ions with H₂. A 59, 1273
- Kumar, Prem** — (see D'Ariano, G. M.) A 59, 826
- Kumar, Sanjay and D. Mathur** — Electron attachment to valence-excited CO. A 59, 4809(BR)
- Kumarappan, V.** — (see Bhardwaj, V. R.) A 59, 3105(BR)
- Kurizki, Gershon** — (see Fortunato, Mauro) A 59, 714
- Kuwamoto, T.** — (see Honda, K.) A 59, R934
- Kwong, Victor H. S.** — (see Fang, Z.) A 59, 342
- Kylli, T., J. Karvonen, H. Aksela, A. Kivimäki, S. Aksela, R. Camillon, L. Avaldi, M. Coreno, M. de Simone, R. Richter, K. C. Prince, and S. Stranges** — L_1 - $L_{2,3}M$ Coster-Kronig transitions in argon. A 59, 4071(BR)
 — (see Aksela, H.) A 59, R2563
- Labzowsky, Leonti, Igor Goidenko, Maria Tokman, and Pekka Pyykkö** — Calculated self-energy contributions for an ns valence electron using the multiple-commutator method. A 59, 2707
- Lagendijk, Ad** — (see Megens, Mischa) A 59, 4727
- Lagus, Mark E.** — (see Boffard, John B.) A 59, 4079(BR)

- Lahmam-Bennani, A., I. Taouil, A. Duguet, M. Lecas, L. Avaldi, and J. Berakdar** — Origin of dips and peaks in the absolute fully resolved cross sections for the electron-impact double ionization of He. A 59, 3548
- Lambropoulos, P.** — (see Camparo, J. C.) A 59, 2515(BR)
- (see Madsen, L. B.) A 59, 4574
- Lamoreaux, S. K.** — Calculation of the Casimir force between imperfectly conducting plates. A 59, R3149
- Lamouche, G., P. Lavallard, and T. Gacoin** — Optical properties of dye molecules as a function of the surrounding dielectric medium. A 59, 4668
- Langer, B.** — (see Farhat, A.) A 59, 320
- Langley, A. J.** — (see Sanderson, J. H.) A 59, R2567
- Laranjeira, M. F.** — (see Santos, J. P.) A 59, 1703(BR)
- Larson, A. and A. E. Orel** — Dissociative recombination of HeH^+ : Product distributions and ion-pair formation. A 59, 3601
- Larsson, Jan-Åke** — Detector efficiency in the Greenberger-Horne-Zeilinger paradox: Independent errors. A 59, 4801(BR)
- Lathi, Seema and Yoshihisa Yamamoto** — Influence of nonlinear gain and loss on the intensity noise of a multimode semiconductor laser. A 59, 819
- Laue, Tanja** — (see Elbs, Michael) A 59, 3665
- Lavallard, P.** — (see Lamouche, G.) A 59, 4668
- Law, C. K.** — (see Pu, H.) A 59, 1533
- Le Beyec, Y.** — (see Brunelle, A.) A 59, 4456
- Lebius, H.** — (see Opitz, J.) A 59, 3562
- Lecas, M.** — (see Lahmam-Bennani, A.) A 59, 3548
- Lechte, S.** — (see Hinderthür, H.) A 59, 2216
- Lecler, D.** — (see Stolterfoht, N.) A 59, 1262
- Lee, Aaron M. and Nicholas C. Handy** — Exchange vector potentials in current-density functional theory. A 59, 209
- Lee, Hyo Sug** — (see Yiannopoulou, Alexandra) A 59, 1178
- Lee, J.** — (see Kim, H. A.) A 59, 1404
- Lee, Jin Yong** — (see Kim, Jongseob) A 59, R930
- Lee, M.-T., L. M. Brescansin, and L. E. Machado** — Elastic scattering of electrons by GeH_4 in the low- and intermediate-energy range. A 59, 1208
- Lee, Min-Ho, Nark Nyul Choi, and Sung-Ho Suck Salk** — Dynamic role of coupled-channel wave phases on the structural determination of angular distributions. A 59, 1966
- Lee, Sik** — (see Kim, Jongseob) A 59, R930
- Lee, Yoon Sup** — (see Yiannopoulou, Alexandra) A 59, 1178
- Lefebvre, R.** — (see Pérez del Valle, C.) A 59, 3701
- Lefèvre-Seguin, V.** — (see Protsenko, I.) A 59, 1667
- Le Floch, Albert** — (see Brunel, Marc) A 59, 831
- Lei, J.** — (see Ramswell, J. A.) A 59, 2186
- Leichtle, C.** — (see Averbukh, I. Sh.) A 59, 2163
- Leinfellner, N.** — (see Korsunsky, E. A.) A 59, 2302
- Le Kien, Fam and K. Haksuta** — Production of coherence of a nonallowed transition in the stationary regime of a Raman scattering process. A 59, 2458
- Lemmens, L. F., F. Brosens, and J. T. Devreese** — Center-of-mass response of confined systems. A 59, 3112(BR)
- Lengyel, V.** — (see Gedeon, V.) A 59, 2016
- Letokhov, V. S.** — (see Klimov, V. V.) A 59, 2996
- Leung, P. T.** — (see Cohen, S. M.) A 59, 4847(C)
- (see Wu, Ying) A 59, 1662
- (see Wu, Ying) A 59, 3032
- Levi, Filippo** — (see Godone, Aldo) A 59, R12
- Levin, J.** — (see Baer, A.) A 59, 1865
- Levin, J. C.** — (see Wehlitz, R.) A 59, 421
- Levy, M. and A. Nagy** — Excited-state Koopmans theorem for ensembles. A 59, 1687(BR)
- Levy, Mel** — (see Seidl, Michael) A 59, 51
- Lewenstein, Maciej** — (see Cormier, Eric) A 59, 3736
- (see Santos, Luis) A 59, 613
- (see Villain, Pierre) A 59, 2250
- Lezama, A., S. Barreiro, and A. M. Akulshin** — Electromagnetically induced absorption. A 59, 4732
- L'Hoir, A.** — (see Dauvergne, D.) A 59, 2813
- L'Huillier, A.** — (see Gaarde, M. B.) A 59, 1367
- Li, Fu-li and Shi-Yao Zhu** — Resonance fluorescence quenching and spectral line narrowing via quantum interference in a four-level atom driven by two coherent fields. A 59, 2330
- Li, Mingzhe, Lixuan Chen, and Chuanhong Chen** — Density of states of particles in a generic power-law potential in any dimensional space. A 59, 3109(BR)
- Li, Shu-Min, Zhang-Jin Chen, Zi-Fang Zhou, and Qing-Qi Wang** — Laser-enhanced antihydrogen formation. A 59, 1697
- Li, Xiaofeng** — (see Wang, Bingbing) A 59, 2894
- Liao, C., S. Hagmann, C. P. Bhalla, S. R. Grabbe, C. L. Cocke, and P. Richard** — Differential electron- Cu^{5+} elastic scattering cross sections extracted from electron emission in ion-atom collisions. A 59, 2773
- Lifschitz, A. F.** — (see Arista, N. R.) A 59, 2719
- Lima, Marco A. P.** — (see Natalense, Alexandra P. P.) A 59, 879(BR)
- Lin, C. D.** — (see Morishita, Toru) A 59, 1835
- (see Sidky, Emil Y.) A 59, 1994
- Lin, Chun C.** — (see Boffard, John B.) A 59, 2749
- (see Boffard, John B.) A 59, 4079(BR)
- Lin, Dong and H. P. Saha** — Partial photoionization cross section and resonance structure of Br. A 59, 3614
- Lin, Fucheng** — (see Zeng, Heping) A 59, 4589
- Lin, Qiong-gui** — Quantum-mechanical model for particles carrying electric charge and magnetic flux in two dimensions. A 59, 3228
- Linden, N. and S. Popescu** — Bound entanglement and teleportation. A 59, 137
- Lindroth, E.** — (see Brandefelt, N.) A 59, 2691
- Lindsay, B. G.** — (see Sieglaff, D. R.) A 59, 3538
- Linkemann, J.** — (see Schippers, S.) A 59, 3092(BR)
- Liu, Chien-Nan and Anthony F. Starace** — Mirroring behavior of partial photodetachment and photoionization cross sections in the neighborhood of a resonance. A 59, R1731
- and Anthony F. Starace — Photodetachment of Na^- . A 59, 3643
- Liu, J. M.** — (see Gao, J. B.) A 59, 1582
- Liu, Jie** — (see Cheng, Taiwang) A 59, 1451
- Liu, K. L.** — (see Lo, C. F.) A 59, 3136(C)
- Liu, Shubin, Ágnes Nagy, and Robert G. Parr** — Expansion of the density-functional energy components E_c and T_c in terms of moments of the electron density. A 59, 1131
- (see Nagy, Ágnes) A 59, 3349
- Livingston, A. E.** — (see Bosselmann, Ph.) A 59, 1874
- (see Schäffer, H. W.) A 59, 245
- Lo, C. F. and K. L. Liu** — Comment on “Single two-level ion in an anharmonic oscillator trap: Time evolution of the Q function and population inversion”. A 59, 3136(C)
- Lohe, H.-J.** — (see Hinderthür, H.) A 59, 2216
- Lohner, F. P.** — (see Villaes, A. A.) A 59, 3926
- Loireau-Lozac'h, A. M.** — (see Padežnik Gomilšek, J.) A 59, 3078(BR)
- Longhi, Stefano** — Transverse patterns in nondegenerate intracavity second-harmonic generation. A 59, 4021
- Loock, Hans-Peter, Leanne M. Beatty, and Benoit Simard** — Reassessment of the first ionization potentials of copper, silver, and gold. A 59, 873(BR)
- Loudon, R.** — (see Artoni, M.) A 59, 2279
- Löwenthal, F.** — (see Tommasini, R.) A 59, 1577
- Lu, Zhi-Yuan** — (see Zhang, Zhi-Ming) A 59, 808
- Lugiato, Luigi** — (see Hoyuelos, Miguel) A 59, 1622
- Lütkenhaus, N., J. Calsamiglia, and K.-A. Suominen** — Bell measurements for teleportation. A 59, 3295
- Lütkenhaus, Norbert** — Estimates for practical quantum cryptography. A 59, 3301
- Lutz, H. O.** — (see Roller-Lutz, Z.) A 59, R2555
- Lvovsky, A. I. and S. R. Hartmann** — Superradiant self-diffraction. A 59, 4052
- Ma, Zhong-Qi** — (see Dong, Shi-Hai) A 59, 995

- Maamache, M., K. Bencheikh, and H. Hachemi** — Comment on ‘‘Harmonic oscillator with time-dependent mass and frequency and a perturbative potential’’. A **59**, 3124(C)
- , **J.-P. Provost, and G. Vallée** — Unitary equivalence and phase properties of the quantum parametric and generalized harmonic oscillators. A **59**, 1777
- Maas, D. J., C. W. Rella, P. Antoine, E. S. Toma, and L. D. Noordam** — Population transfer via adiabatic passage in the rubidium quantum ladder system. A **59**, 1374
- Macchiavello, C.** — (see Cirac, J. I.) A **59**, 4249
- (see D’Ariano, G. M.) A **59**, 1816
- Maccione, L.** — (see D’Ariano, G. M.) A **59**, 1816
- Macek, J. H.** — (see Ward, S. J.) A **59**, 4418
- Machado, L. E.** — (see Lee, M.-T.) A **59**, 1208
- Machholm, Mette, Paul S. Julienne, and Kalle-Antti Suominen** — Collisions of cold magnesium atoms in a weak laser field. A **59**, R4113
- Machida, Kazushige** — (see Isoshima, Tomoya) A **59**, 2203
- Mackie, Matt** — (see Javanainen, Juha) A **59**, R3186
- Madsen, L. B. and P. Lambropoulos** — Scaling of hydrogenic atoms and ions interacting with laser fields: Positronium in a laser field. A **59**, 4574
- Magel, A.** — (see Dauvergne, D.) A **59**, 2813
- Magnuson, M., J. Guo, C. S  the, J.-E. Rubensson, J. Nordgren, P. Glans, L. Yang, P. Salek, and H.   gren** — Competition between decay and dissociation of core-excited carbonyl sulfide studied by x-ray scattering. A **59**, 4281
- Mahajan, S. M.** — (see Berezhiani, V. I.) A **59**, 859
- Maier, K.** — (see Piancastelli, M. N.) A **59**, 1336
- Maier-Borst, Mathias, Douglas B. Cameron, Mordechai Rokni, and Joel H. Parks** — Electron diffraction of trapped cluster ions. A **59**, R3162
- Maierl, C.** — (see Torii, H. A.) A **59**, 223
- Main, J  rg and G  nter Wunner** — Semiclassical calculation of transition matrix elements for atoms in external fields. A **59**, R2548
- Majima, T.** — (see Itoh, A.) A **59**, 4428
- Majumder, Sonjoy, B. P. Das, and Rajat K. Chaudhuri** — Excitation energies and oscillator strengths of Ca I using multireference many-body perturbation theory. A **59**, 3432
- Malinovsky, Vladimir S.** — (see Sol  , Ignacio R.) A **59**, 4494
- Mandal, Puspajit** — (see Kar, Sabyasachi) A **59**, 1913
- Mandel, Paul** — (see Tlidi, M.) A **59**, R2575
- Mandelbaum, P.** — (see Behar, E.) A **59**, 2787
- (see Doron, R.) A **59**, 188
- Mangan, M. A., R. M. Wood, A. K. Edwards, and Q. Zheng** — Excitation of the $2p\sigma_u$ state of H_2^+ as a function of the internuclear axis alignment. A **59**, 358
- Man’ko, Vladimir, Marcos Moshinsky, and Anju Sharma** — Diffraction in time in terms of Wigner distributions and tomographic probabilities. A **59**, 1809
- Mann, A.** — (see Brif, C.) A **59**, 971
- (see Ramon, G.) A **59**, 736
- Manson, Neil B.** — (see Greentree, Andrew D.) A **59**, 4083(BR)
- Manson, S. T.** — (see Zhou, H. L.) A **59**, 462
- Manson, Steven T.** — (see Altun, Zikri) A **59**, 3576
- (see Johnson, W. R.) A **59**, 3609
- Mao, Jian-min** — (see Yang, Guangcan) A **59**, 2053
- Marburger, John H., III and Kunal K. Das** — Visibility limit in multiparticle eigenstates of definite relative phase. A **59**, 2213
- Marcassa, L. G.** — (see Milori, D. M. B. P.) A **59**, 3101(BR)
- (see Miranda, S. G.) A **59**, 882(BR)
- (see Telles, G. D.) A **59**, R23
- Mar  chal, E., S. Guibal, J.-L. Bossennec, R. Barb  , J.-C. Keller, and O. Gorceix** — Longitudinal focusing of an atomic cloud using pulsed magnetic forces. A **59**, 4636
- Marian, Paulina** — Erratum: Second-order squeezed states [Phys. Rev. A **55**, 3051 (1997)]. A **59**, 3141(E)
- Marinescu, M. and H. R. Sadeghpour** — Long-range potentials for two-species alkali-metal atoms. A **59**, 390
- and **L. You** — Casimir-Polder long-range interaction potentials between alkali-metal atoms. A **59**, 1936
- Markossian, A. G.** — (see Avetissian, H. K.) A **59**, 549
- Marshall, R. J., G. H. C. New, K. Burnett, and S. Choi** — Exciting, cooling, and vortex trapping in a Bose-condensed gas. A **59**, 2085
- Martin, N. L. S., R. P. Bauman, and M. Wilson** — ($e, 2e$) study of cadmium ionization in the $4d^9 5s^2 5p$ autoionizing region. A **59**, 2764
- Martin, S.** — (see Chen, L.) A **59**, 2827
- Martin, Serge, Li Chen, Alain Denis, and Jean D  sesquelles** — Very high multiplicity distributions of electrons emitted in multicapture collision between Xe^{25+} and C_{60} . A **59**, R1734
- Mart  nez, H. and P. G. Reyes** — Absolute differential and total cross sections for single electron capture in low-energy Kr^+ -Ar collisions. A **59**, 2504(BR)
- Martinez, M. A. G.** — (see Milori, D. M. B. P.) A **59**, 3101(BR)
- Martinson, I.** — (see Henderson, M.) A **59**, 4068(BR)
- Martorell, J.** — (see Friar, J. L.) A **59**, 4061(BR)
- Martynenko, A. P.** — (see Faustov, R. N.) A **59**, 2498(BR)
- Marzlin, Karl-Peter and Weiping Zhang** — Photonic band gaps and defect states induced by excitations of Bose-Einstein condensates in optical lattices. A **59**, 2982
- Masoller, C. and N. B. Abraham** — Low-frequency fluctuations in vertical-cavity surface-emitting semiconductor lasers with optical feedback. A **59**, 3021
- Mathur, D.** — (see Bhardwaj, V. R.) A **59**, 1392
- (see Bhardwaj, V. R.) A **59**, 3105(BR)
- (see Kumar, Sanjay) A **59**, 4809(BR)
- Matila, T.** — (see Aksela, H.) A **59**, R2563
- Matsunami, N.** — (see Tawara, H.) A **59**, 3095(BR)
- Matsuo, Yukari, Takashi Nakajima, Tohru Kobayashi, and Michio Takami** — Radiative lifetimes and collisional deactivation cross sections of the $5d6p$ states of laser-ablated Ba in He gas. A **59**, 2071
- Matsuyama, Hisashi** — (see Koga, Toshikatsu) A **59**, 4805(BR)
- Mattoni, C. E. H.** — (see McKinsey, D. N.) A **59**, 200
- Matusek, D. R.** — (see Wright, J. S.) A **59**, 4512
- Matveenko, A. V.** — Three-body angular basis and simple expression for Wigner $\hat{d}(\beta)$ matrices. A **59**, 1034
- Matzkin, A.** — Standing-wave rearrangement scattering formalism for multiarrangement quantum-defect theory. A **59**, 2043
- May, A. D.** — Molecular dynamics and a simplified master equation for spectral line shapes. A **59**, 3495
- (see Dolbeau, S.) A **59**, 3506
- Mayol, Catalina, Ra  l Toral, and Claudio R. Mirasso** — Lyapunov-potential description for laser dynamics. A **59**, 4690
- Mazevet, S., Michael A. Morrison, Olen Boydston, and R. K. Nesbet** — Inclusion of nonadiabatic effects in calculations on vibrational excitation of molecular hydrogen by low-energy electron impact. A **59**, 477
- Mazzitelli, Francisco D.** — (see Dalvit, Diego A. R.) A **59**, 3049
- McCabe, S.** — (see Smith, R.) A **59**, R47
- McCarroll, Ronald** — (see Suno, Hiroya) A **59**, 524
- McCarthy, I. E.** — (see Brunger, M. J.) A **59**, 1245
- McClelland, J. J.** — (see Anderson, W. R.) A **59**, 2476
- McGloin, D.** — (see Boon, J. R.) A **59**, 4675
- McGowan, Rebecca R. and William C. Schieve** — Theory of detection in the micromaser. A **59**, 778
- McGuire, J.** — (see Spielberger, L.) A **59**, 371
- McGuire, J. H.** — (see Melchert, F.) A **59**, 4379
- McKinney, B. A.** — (see Watson, D. K.) A **59**, 4091(BR)
- McKinsey, D. N., C. R. Brome, J. S. Butterworth, S. N. Dzhosyuk, P. R. Huffman, C. E. H. Mattoni, J. M. Doyle, R. Golub, and K. Habicht** — Radiative decay of the metastable $\text{He}_2(a^3\Sigma_u^+)$ molecule in liquid helium. A **59**, 200
- Megens, Mischa, Judith E. G. J. Wijnhoven, Ad Lagendijk, and Willem L. Vos** — Fluorescence lifetimes and linewidths of dye in photonic crystals. A **59**, 4727
- Mehta, D., Sanjiv Puri, Nirmal Singh, M. L. Garg, and P. N. Trehan** — Angular dependence of L x-ray production cross sections in uranium at 22.6- and 59.5-keV photon energies. A **59**, 2723

- Melchert, F., E. Salzborn, D. B. Uskov, L. P. Presnyakov, Catalina Gonzalez, and J. H. McGuire** — Charge and velocity dependence of the ratio of double to single ionization of H^- by Ar^{q+} and Xe^{q+} . A 59, 4379
- Melezhik, Vladimir S.** — Generation of monochromatic radiation by atomic ions in a magnetic field. A 59, 4833(BR)
- **and Peter Schmelcher** — Magnetic-field-stimulated transitions of excited states in fast muonic helium ions. A 59, 4264
- Melnikov, Kirill** — (see Czarniecki, Andrzej) A 59, 4316
- Menon, Sunish and G. S. Agarwal** — Gain from cross talk among optical transitions. A 59, 740
- Menzel, A.** — (see Caldwell, C. D.) A 59, R926
- Menzel, R.** — (see Ostermeyer, M.) A 59, 3975
- Menzel, T.** — (see Grosser, J.) A 59, 1309
- Merabet, H., H.M. Cakmak, E.D. Emmons, A.A. Hasan, T. Osipov, R.A. Phaneuf, and R. Ali** — Production and relaxation pathways of multiply excited states in slow highly charged ion-atom collisions. A 59, R3158
- (see Bedouet, C.) A 59, 4399
- Mercero, José M., Joseph E. Fowler, Cecilia Sarasola, and Jesus M. Ugalde** — Atomic configuration-interaction electron-electron counterbalance densities. A 59, 4255
- Mergel, V.** — (see Spielberger, L.) A 59, 371
- Merriam, A. J.** — (see Xia, Hui) A 59, R3190
- Meyer, J.** — (see Sadeghi, S. M.) A 59, 3998
- Meystre, P.** — (see Moore, M. G.) A 59, R1754
- (see Yang, G. J.) A 59, 4012
- (see Zobay, O.) A 59, 643
- Meystre, Pierre** — (see Goldstein, Elena V.) A 59, 1509
- (see Goldstein, Elena V.) A 59, 3896
- Midorikawa, Katsumi** — (see Tamaki, Yusuke) A 59, 4041
- Miklaszewski, R.** — (see Bereziani, V. I.) A 59, 859
- Milburn, G. J.** — (see Breslin, J. K.) A 59, 1781
- (see Cochrane, P. T.) A 59, 2631
- (see Corney, J. F.) A 59, 4630
- (see Schneider, S.) A 59, 3766
- Mileti, G.** — (see Deng, J. Q.) A 59, 773
- Miller, H. G.** — (see Bhaduri, R. K.) A 59, R911
- Miller, W. A.** — (see Rislove, D. C.) A 59, 906(E)
- Milner, Valery and Yehiam Prior** — Biaxial spatial orientation of atomic angular momentum. A 59, R1738
- Milonni, Peter W., Martin Schaden, and Larry Spruch** — Lamb shift of an atom in a dielectric medium. A 59, 4259
- Milori, D. M. B. P., M. A. G. Martinez, A. M. Tuboy, L. G. Marcassa, J. Flemming, R. Ejnisman, S. C. Zilio, and V. S. Bagnato** — Observation of periodic structures of atoms in a two-color magneto-optical trap. A 59, 3101(BR)
- Miranda, S. G., S. R. Muniz, G. D. Telles, L. G. Marcassa, K. Helmersson, and V. S. Bagnato** — “Dark-spot” atomic-beam slowing for on-axis loading of traps. A 59, 882(BR)
- (see Telles, G. D.) A 59, R23
- Mirasso, Claudio R.** — (see Mayol, Catalina) A 59, 4690
- Miri, Faez and Ramin Golestanian** — Motion-induced radiation from a dynamically deforming mirror. A 59, 2291
- Missimer, J.** — (see Kirch, K.) A 59, 3375
- Mitnik, D.** — (see Pindzola, M. S.) A 59, 4390
- Mitnik, D. M., M. S. Pindzola, and N. R. Badnell** — Total and partial recombination cross sections for F^{6+} . A 59, 3592
- Mitsunaga, Masaharu and Nobuyuki Imoto** — Observation of an electromagnetically induced grating in cold sodium atoms. A 59, 4773
- Mittler, K.** — (see Ostermeyer, M.) A 59, 3975
- Miyashita, Naoyuki, Daiji Kato, and Shinichi Watanabe** — Quantum diffraction and threshold law for the Temkin-Poet model of electron-hydrogen ionization. A 59, 4385
- Moehs, D. P. and D. A. Church** — Measured lifetimes of metastable levels of Mn x, Mn xi, Mn xii, and Mn xiii ions. A 59, 1884
- Moiseyev, Nimrod** — (see Averbukh, Vitali) A 59, 3695
- (see Vorobeichik, Ilya) A 59, 1699(BR)
- (see Vorobeichik, Ilya) A 59, 2511(BR)
- Mokler, P. H.** — (see Bosselmann, Ph.) A 59, 1874
- (see Dauvergne, D.) A 59, 2813
- (see Schäffer, H. W.) A 59, 245
- Molisch, A. F.** — (see Bezuglov, N. N.) A 59, 4340
- Möhlmer, Klaus and Sören Bay** — Comment on “Resonance fluorescence near a photonic band edge: Dressed-state Monte Carlo wave-function approach”. A 59, 904(C)
- (see Nygaard, Nicolai) A 59, 2974
- Moloney, J. V.** — (see White, J. K.) A 59, 2422
- Mompert, J., R. Corbalán, and R. Vilaseca** — Giant pulse lasing in three-level systems. A 59, 3038
- Monken, C. H.** — (see Fonseca, E. J. S.) A 59, 1608
- Monkhorst, H. J.** — (see Korobov, V. I.) A 59, R919
- Montenegro, E. C.** — (see Voitkiv, A. B.) A 59, 2794
- Moon, H. S.** — (see Kim, H. A.) A 59, 1404
- Moore, M. G. and P. Meystre** — Optical control and entanglement of atomic Schrödinger fields. A 59, R1754
- Mor, Tal** — (see Bennett, Charles H.) A 59, 1070
- Morgan, D. V. and R. J. Bartlett** — Single-photon ionization of helium from 4.5 to 12 keV by Compton scattering and the photoelectric effect. A 59, 4075(BR)
- Morgan, T. J.** — (see Keeler, M. L.) A 59, 4559
- (see Püttner, R.) A 59, 3415
- Mori, Tomonori** — (see Kawano, Hiroyuki) A 59, 4703
- Moribayashi, Kengo, Akira Sasaki, and T. Tajima** — X-ray emission by ultrafast inner-shell ionization from vapors of Na, Mg, and Al. A 59, 2732
- Morigi, G., J. Eschner, J. I. Cirac, and P. Zoller** — Laser cooling of two trapped ions: Sideband cooling beyond the Lamb-Dicke limit. A 59, 3797
- Morinaga, M.** — (see Bouchoule, I.) A 59, R8
- Morishita, Toru and C. D. Lin** — Comprehensive analysis of electron correlations in three-electron atoms. A 59, 1835
- Morita, N.** — (see Torii, H. A.) A 59, 223
- Morokuma, Keiji** — (see Bandrauk, André D.) A 59, 4309
- Morrison, Michael A.** — (see Mazevet, S.) A 59, 477
- Moshinsky, Marcos** — (see Man'ko, Vladimir) A 59, 1809
- Mota-Furtado, F.** — (see Santos, J. P.) A 59, 1703(BR)
- Movsisian, S. V.** — (see Avetissian, H. K.) A 59, 549
- Moy, G. M., J. J. Hope, and C. M. Savage** — Born and Markov approximations for atom lasers. A 59, 667
- Moya, A.** — (see Porras, I.) A 59, 1859
- Moya-Cessa, H., A. Vidiella-Barranco, J. A. Roversi, Dagoberto S. Freitas, and S. M. Dutra** — Long-time-scale revivals in ion traps. A 59, 2518
- , **S. Wallentowitz, and W. Vogel** — Quantum-state engineering of a trapped ion by coherent-state superpositions. A 59, 2920
- Msezane, A. Z.** — (see Amusia, M. Ya) A 59, R2544
- Mukai, Takaaki** — (see Shimizu, Kaoru) A 59, 1092
- Mukherjee, S. C.** — (see Sahoo, S.) A 59, 275
- Mulchan, Neil M.** — (see Zhu, Yifu) A 59, 4005
- Müller, A.** — (see Schippers, S.) A 59, 3092(BR)
- Muller, H. G.** — (see van Duijn, Ernst) A 59, 1423
- Müller, T.** — (see Tittonen, I.) A 59, 1038
- Müller, U. and P. C. Cosby** — Three-body decay of the $3s\ ^2A'_1(N=1, K=0)$ and $3d\ ^2E''(N=1, G=0, R=1)$ Rydberg states of the triatomic hydrogen molecule H_3 . A 59, 3632
- Mulser, P.** — (see Bauer, D.) A 59, 569
- Muniz, S. R.** — (see Miranda, S. G.) A 59, 882(BR)
- (see Telles, G. D.) A 59, R23
- Munro, W. J.** — Optimal states for Bell-inequality violations using quadrature-phase homodyne measurements. A 59, 4197
- (see Cochrane, P. T.) A 59, 2631
- Münzenberg, G.** — (see Dauvergne, D.) A 59, 2813
- Murao, M., D. Jonathan, M. B. Plenio, and V. Vedral** — Quantum telecloning and multiparticle entanglement. A 59, 156
- Murray, D. W.** — (see Byrnes, T. M. R.) A 59, 3082(BR)
- Murthy, M. V. N.** — (see Bhaduri, R. K.) A 59, R911
- Musae, Djamaladdin G.** — (see Bandrauk, André D.) A 59, 4309

- Musslimani, Ziad H. and Len M. Pismen** — Resonant optical patterns in sodium vapor in a magnetic field. A **59**, 1571
- Muthig, A.** — (see Spielberger, L.) A **59**, 371
- Nagata, T.** — (see Huang, M.-T.) A **59**, 3397
- Nagata, Yutaka** — (see Tamaki, Yusuke) A **59**, 4041
- Nagy, Á.** — (see Levy, M.) A **59**, 1687(BR)
- Nagy, Ágnes, Shubin Liu, and Robert G. Parr** — Density-functional formulas for atomic electronic energy components in terms of moments of the electron density. A **59**, 3349
- (see Liu, Shubin) A **59**, 1131
- Nakajima, Nobuharu** — Reconstruction of a wave function from the Q function using a phase-retrieval method in quantum-state measurements of light. A **59**, 4164
- Nakajima, Takashi** — Population transfer in *N*-level systems assisted by dressing fields. A **59**, 559
- (see Matsuo, Yukari) A **59**, 2071
- Nakamura, Hiroki** — (see Osherov, Vladimir I.) A **59**, 2486(BR)
- Naraschewski, M. and R. J. Glauber** — Spatial coherence and density correlations of trapped Bose gases. A **59**, 4595
- (see Jack, M. W.) A **59**, 2962
- Naraschewski, Martin** — (see Holzmman, Markus) A **59**, 2956
- Natalense, Alexandra P. P., Márcio H. F. Bettega, Luiz G. Ferreira, and Marco A. P. Lima** — Halogenation effects in electron scattering from CHF₃, CH₂F₂, CH₃F, CHCl₃, CH₂Cl₂, CH₃Cl, CFCl₃, CF₂Cl₂, and CF₃Cl. A **59**, 879(BR)
- Nath, B., R. Biswas, and C. Sinha** — Double ionization of Li⁺ by fast-electron impact. A **59**, 455
- Naumann, R. A.** — (see Daniel, H.) A **59**, 3343
- Nemes, M. C.** — (see Peixoto de Faria, J. G.) A **59**, 3918
- Nesbet, R. K.** — (see Mazevet, S.) A **59**, 477
- New, G. H. C.** — (see Marshall, R. J.) A **59**, 2085
- Newell, W. R.** — (see Sanderson, J. H.) A **59**, R2567
- Ng, C. Y.** — (see Shiell, R. C.) A **59**, 2903
- Nickel, F.** — (see Dauvergne, D.) A **59**, 2813
- Nicolaides, Cleanthes A.** — (see Themelis, Spyros I.) A **59**, 2500(BR)
- Nienhuis, G.** — (see Dutra, S. M.) A **59**, 4699
- Nishide, T.** — (see Sanderson, J. H.) A **59**, 4817(BR)
- Noack, F.** — (see Stert, V.) A **59**, R1727
- Nogami, Y.** — (see Coutinho, F. A. B.) A **59**, 2624
- (see Toyama, F. M.) A **59**, 1056
- Nõmmiste, E.** — (see Aksela, H.) A **59**, R2563
- (see Püttner, R.) A **59**, 4438
- Nomura, Y.** — (see Tsukada, N.) A **59**, 2852
- (see Tsukada, N.) A **59**, 3862
- Noordam, L. D.** — (see Maas, D. J.) A **59**, 1374
- Nordgren, J.** — (see Magnuson, M.) A **59**, 4281
- Nordlander, P.** — (see Gu, J.-P.) A **59**, 405
- Norquist, Peggy L., Donald R. Beck, René C. Bilodeau, Michael Scheer, Raphaël A. Srawley, and Harold K. Haugen** — Theoretical and experimental binding energies for the $d^7s^2\ ^4F$ levels in Ru⁺, including calculated hyperfine structure and *M*1 decay rates. A **59**, 1896
- Nygaard, Nicolai and Klaus Mølmer** — Component separation in harmonically trapped boson-fermion mixtures. A **59**, 2974
- Obara, Minoru** — (see Tamaki, Yusuke) A **59**, 4041
- Oberthaler, M. K.** — (see Godun, R. M.) A **59**, 3775
- Oddershede, Jens** — (see Cabrera-Trujillo, R.) A **59**, 4850(E)
- Oh, Kyung Seok** — (see Kim, Jongseob) A **59**, R930
- Öhberg, Patrik** — Stability properties of the two-component Bose-Einstein condensate. A **59**, 634
- and Stig Stenholm — Internal Josephson effect in trapped double condensates. A **59**, 3890
- Öhrwall, G., P. Baltzer, and J. Bozek** — Photoelectron spectra of N₂⁺: Rotational line profiles studied with He I-excited angle-resolved spectroscopy and with synchrotron radiation. A **59**, 1903
- O’Kane, T. J., R. E. Scholten, P. M. Farrell, and M. R. Walkiewicz** — Nonlinear interactions of multilevel atoms with a near-resonant standing wave. A **59**, 4485
- Olson, R. E.** — (see Wood, C. J.) A **59**, 1317
- Opitz, J., H. Lebius, B. Saint, S. Jacquet, B. A. Huber, and H. Cederquist** — Correlation studies of energy gain and fragmentation in ion-fullerene collisions. A **59**, 3562
- Oppenheim, J., B. Reznik, and W. G. Unruh** — Time-of-arrival states. A **59**, 1804
- Orel, A. E.** — (see Carata, L.) A **59**, 2804
- (see Larson, Å.) A **59**, 3601
- Orient, O. J. and A. Chutjian** — Experimental study of dissociative attachment in H₂: Effects of vibrational excitation. A **59**, 4374
- Orozco, L. A.** — (see Simsarian, J. E.) A **59**, 195
- Ortiz, Gerardo** — (see Jones, Matthew D.) A **59**, 2875
- Orzel, C., M. Walhout, U. Sterr, P. S. Julienne, and S. L. Rolston** — Spin polarization and quantum-statistical effects in ultracold ionizing collisions. A **59**, 1926
- Osaki, Masao** — (see Sasaki, Masahide) A **59**, 3325
- Osherov, Vladimir I. and Hiroki Nakamura** — Analytic solution of two-state time-independent coupled Schrödinger equations in an exponential model. A **59**, 2486(BR)
- Osipov, T.** — (see Merabet, H.) A **59**, R3158
- Ostermeyer, M., K. Mittler, and R. Menzel** — Q switch and longitudinal modes of a laser oscillator with a stimulated-Brillouin-scattering mirror. A **59**, 3975
- Ostrovsky, V. N.** — (see Kuchiev, M. Yu.) A **59**, 2844
- Ovchinnikov, S. Yu.** — (see Ward, S. J.) A **59**, 4418
- Ozeri, Roe, Lev Khaykovich, and Nir Davidson** — Long spin relaxation times in a single-beam blue-detuned optical trap. A **59**, R1750
- Padežnik Gomišek, J., A. Kodre, I. Arčon, A. M. Loireau-Lozac’h, and S. Bénazeth** — Multielectron photoexcitations in x-ray-absorption spectra of 4*p* elements. A **59**, 3078(BR)
- Padgett, M. J.** — (see Arlt, J.) A **59**, 3950
- Pádua, S.** — (see Fonseca, E. J. S.) A **59**, 1608
- Panajotov, K.** — (see Erneux, Thomas) A **59**, 4660
- Panda, Prafulla K.** — (see Chaudhuri, Rajat K.) A **59**, 1187
- Pantelev, A. A.** — (see Savchenko, V. I.) A **59**, 708
- Papadopoulos, George J. and Ioannis A. Hadjiagapiou** — Comment on “Induced transitions and energy of a damped oscillator”. A **59**, 3127(C)
- Papastathopoulos, E., D. Xenakis, and D. Charalambidis** — Phase-sensitive ionization through multiphoton-excitation schemes involving even numbers of photons. A **59**, 4840(BR)
- Papp, T.** — (see Jitschin, W.) A **59**, 3408
- Paramonov, G. K.** — (see Andrianov, I. V.) A **59**, 2134
- Parente, F.** — (see Santos, J. P.) A **59**, 1703(BR)
- Paris, Matteo G. A.** — Entanglement and visibility at the output of a Mach-Zehnder interferometer. A **59**, 1615
- Park, Jung Mee** — (see Kim, Jongseob) A **59**, R930
- Park, Su Jin** — (see Yiannopoulou, Alexandra) A **59**, 1178
- Parks, Joel H.** — (see Maier-Borst, Mathias) A **59**, R3162
- Parola, A.** — (see Salasnich, L.) A **59**, 2990
- Parr, Robert G.** — (see Liu, Shubin) A **59**, 1131
- (see Nagy, Ágnes) A **59**, 3349
- Parzyński, R. and A. Grudka** — Raman mixing of Rydberg angular momenta probed by photoelectron angular distributions. A **59**, 893(BR)
- (see Wójcik, A.) A **59**, 597
- Patil, S. H.** — Perturbative approach in the WKB analysis: Application to the Stark effect. A **59**, 2684
- Patnaik, Anil K. and G. S. Agarwal** — Cavity-induced coherence effects in spontaneous emissions from preselection of polarization. A **59**, 3015
- Patra, M. and C. W. J. Beenakker** — Long-range correlation of thermal radiation. A **59**, R43

- Patte, P.** — (see Kirch, K.) A 59, 3375
- Patterson, B. M., T. Takekoshi, and R. J. Knize** — Measurement of the photoionization cross section of the $6P_{3/2}$ state of cesium. A 59, 2508(BR)
- (see Takekoshi, T.) A 59, R5
- Paul, B. D., M. L. Dowell, A. Gallagher, and J. Cooper** — Observation of conical emission from a single self-trapped beam. A 59, 4784
- Pautrat, M.** — (see Brunelle, A.) A 59, 4456
- Pearle, Philip** — Relativistic collapse model with tachyonic features. A 59, 80
- Pedemonte, L., G. Bracco, and R. Tatarek** — Theoretical and experimental study of He free-jet expansions. A 59, 3084(BR)
- Pederson, Mark** — (see Jackson, Koblar) A 59, 3685
- Pedrotti, Leno M., Michael Sokol, and Perry R. Rice** — Linewidth of four-level microcavity lasers. A 59, 2295
- Pegg, David J.** — (see Haefliger, Gunnar) A 59, 3655
- Peixoto de Faria, J. G. and M. C. Nemes** — Dissipative dynamics of the Jaynes-Cummings model in the dispersive approximation: Analytical results. A 59, 3918
- Pelton, Matthew and Yoshihisa Yamamoto** — Ultralow threshold laser using a single quantum dot and a microsphere cavity. A 59, 2418
- Perdew, John P.** — (see Seidl, Michael) A 59, 51
- Pérez del Valle, C., R. Lefebvre, and O. Atabek** — Transfer-matrix formulation of field-assisted tunneling. A 59, 3701
- Pérez-García, Víctor M.** — (see Ripoll, Juan J. G.) A 59, 2220
- Peřina, Jan, Jr., Alexander V. Sergienko, Bradley M. Jost, Bahaa E. A. Saleh, and Malvin C. Teich** — Dispersion in femtosecond entangled two-photon interference. A 59, 2359
- Perrin, H.** — (see Bouchoule, I.) A 59, R8
- Perry, M. D.** — (see Zweiback, J.) A 59, R3166
- Pert, G. J.** — (see Smith, R.) A 59, R47
- Pethick, C. J.** — (see Elgarøy, Ø.) A 59, 1711(BR)
- Petrosyan, K. G. and L. You** — Topological phases and circulating states of Bose-Einstein condensates. A 59, 639
- Petrucione, Francesco** — (see Breuer, Heinz-Peter) A 59, 1633
- Pfahl, Eric D.** — (see Adkins, Gregory S.) A 59, R915
- Phaneuf, R.A.** — (see Merabet, H.) A 59, R3158
- Piancastelli, M. N., A. Hempelmann, F. Heiser, O. Gessner, A. Rüdél, and U. Becker** — Resonant photofragmentation of water at the oxygen *K* edge by high-resolution ion-yield spectroscopy. A 59, 300
- , **B. Kempgens, U. Hergenbahn, A. Kivimäki, K. Maier, A. Rüdél, and A. M. Bradshaw** — Nonlinear dispersion in resonant Auger decay of H_2O molecules. A 59, 1336
- Piazza, Andrea** — (see Karwasz, Grzegorz P.) A 59, 1341
- Pibida, L.** — (see Huang, M.-T.) A 59, 3397
- Pibida, L. S.** — (see Wehlitz, R.) A 59, 421
- Piech, Garrett A.** — (see Boffard, John B.) A 59, 2749
- Pinard, Michel, Gabriela Boffik, Wojciech Gawlik, and Jerzy Zachorowski** — Amplification without inversion in a medium with collisional dephasing. A 59, 848
- Pindzola, M. S., D. Mitnik, and F. Robicheaux** — Electron-impact double ionization of a model helium atom. A 59, 4390
- (see Kołakowska, A.) A 59, 3588
- (see Mitnik, D. M.) A 59, 3592
- Piriaux, Bernard** — (see Groses, Thomas) A 59, 3088(BR)
- Pismen, Len M.** — (see Musslimani, Ziad H.) A 59, 1571
- Pivovarov, Yu. L.** — (see Dauvergne, D.) A 59, 2813
- Plagne, L. and C. Guet** — Highly ionized but weakly excited metal clusters in collisions with multicharged ions. A 59, 4461
- Plastino, A.** — (see Puente, A.) A 59, 3211
- Plenio, M. B., S. F. Huelga, A. Beige, and P. L. Knight** — Cavity-loss-induced generation of entangled atoms. A 59, 2468
- (see Murao, M.) A 59, 156
- Podivilov, E. V.** — (see Babin, S. A.) A 59, 1355
- Pohl, R.** — (see Torii, H. A.) A 59, 223
- Poirier, Michel and Rachid Semaoune** — Polarization effects in autoionization processes of alkaline-earth-metal atoms: Coulomb Green's-function analysis. A 59, 3471
- Poizat, J.-C.** — (see Dauvergne, D.) A 59, 2813
- Politis, M. F.** — (see Dauvergne, D.) A 59, 2813
- Pollack, D. H.** — (see Komara, R. A.) A 59, 251
- Pollack, E.** — (see Greenwood, J. B.) A 59, 1348
- Polynkin, P. G.** — (see Kozlov, V. V.) A 59, 3060
- Polzik, E. S.** — Einstein-Podolsky-Rosen-correlated atomic ensembles. A 59, 4202
- (see Georgiades, N. Ph.) A 59, 676
- Popescu, S.** — (see Linden, N.) A 59, 137
- Popov, Alexander K. and Vladimir M. Shalaev** — Elimination of Doppler broadening at coherently driven quantum transitions. A 59, R946
- Porras, I. and A. Moya** — Modified Thomas-Fermi-Dirac approach for the evaluation of atomic ground-state properties. A 59, 1859
- Pötting, S.** — (see Zobay, O.) A 59, 643
- Powers, D.** — (see Ariyasinghe, W. M.) A 59, 1291
- Præstegård, L., T. Andersen, and P. Balling** — Two-photon detachment of H^- in the vicinity of the one-photon detachment threshold. A 59, R3154
- Presnyakov, L. P.** — (see Melchert, F.) A 59, 4379
- Prevedelli, M., F. S. Cataliotti, E. A. Cornell, J. R. Ensher, C. Fort, L. Ricci, G. M. Tino, and M. Inguscio** — Trapping and cooling of potassium isotopes in a double-magneto-optical-trap apparatus. A 59, 886(BR)
- Prince, K. C.** — (see Coreno, M.) A 59, 2494(BR)
- (see Karvonen, J.) A 59, 315
- (see Kylli, T.) A 59, 4071(BR)
- Prior, Yehiam** — (see Milner, Valery) A 59, R1738
- Pritchard, D. E., R. A. Rubenstein, A. Dhirani, D. A. Kokorowski, E. T. Smith, T. D. Hammond, and B. Rohwedder** — Longitudinal atom optics using localized oscillating fields: A fully quantum-mechanical treatment. A 59, 4641
- Privalov, T. and A. Shalagin** — Exact solution of the one- and three-dimensional quantum kinetic equations with velocity-dependent collision rates: Comparative analysis. A 59, 4331
- Privalov, Timofei** — (see Gel'mukhanov, Faris) A 59, 380
- Protsenko, I., P. Domokos, V. Lefèvre-Seguin, J. Hare, J. M. Raimond, and L. Davidovich** — Quantum theory of a thresholdless laser. A 59, 1667
- Provost, J.-P.** — (see Maamache, M.) A 59, 1777
- Pu, H., C. K. Law, J. H. Eberly, and N. P. Bigelow** — Coherent disintegration and stability of vortices in trapped Bose condensates. A 59, 1533
- Puente, A., M. Casas, and A. Plastino** — Fisher information and semiclassical methods. A 59, 3211
- Puri, Sanjiv** — (see Mehta, D.) A 59, 2723
- Püttner, R., I. Dominguez, T. J. Morgan, C. Cisneros, R. F. Fink, E. Rotenberg, T. Warwick, M. Domke, G. Kaindl, and A. S. Schlachter** — Vibrationally resolved O 1s core-excitation spectra of CO and NO. A 59, 3415
- , **Y. F. Hu, G. M. Bancroft, H. Aksela, E. Nömmiste, J. Karvonen, A. Kivimäki, and S. Aksela** — Detailed analysis of the $3d^{-1} \rightarrow 4p\pi^{-2}$ normal Auger spectra in HBr and DBr. A 59, 4438
- Pykkö, Pekka** — (see Labzowsky, Leonti) A 59, 2707
- Qiu, Y.** — (see Spielberger, L.) A 59, 371
- Qiu, Yanghui and Joachim Burgdörfer** — Group-theoretical approach to final-state angular correlations in double photoionization of helium. A 59, 2738
- Qiuli, Pan** — (see Kaige, Wang) A 59, 803
- Qureshi, Tabish** — (see Hari Dass, N. D.) A 59, 2590
- Radloff, W.** — (see Stert, V.) A 59, R1727
- Raghavan, S., A. Smerzi, S. Fantoni, and S. R. Shenoy** — Coherent oscillations between two weakly coupled Bose-Einstein condensates: Josephson effects, π oscillations, and macroscopic quantum self-trapping. A 59, 620

- Raimond, J. M.** — (see Protsenko, I.) A 59, 1667
- Rains, Eric** — (see Bennett, Charles H.) A 59, 1070
- Rajgara, F. A.** — (see Bhardwaj, V. R.) A 59, 3105(BR)
- Ralchenko, Yuri V., Hans R. Griem, Igor Bray, and Dmitry V. Fursa** — Quantum-mechanical calculation of Stark widths of Ne VII $n=3$, $\Delta n=0$ transitions. A 59, 1890
- Ramon, G., C. Brif, and A. Mann** — Governing dynamics by squeezing in a system of cold trapped ions. A 59, 736
- Ramswell, J. A., V. G. Stavros, J. Lei, Q. Hong, and H. H. Fielding** — Observation of autoionizing Rydberg-electron wave packets in Xe. A 59, 2186
- Randoux, S. and J. Zemmouri** — Polarization dynamics of a Brillouin fiber ring laser. A 59, 1644
- Rao, B. K.** — (see Gutsev, Gennady L.) A 59, 3681
- Rappaport, M. L.** — (see Wolf, A.) A 59, 267
- Rarity, J. G. and P. R. Tapster** — Three-particle entanglement from entangled photon pairs and a weak coherent state. A 59, R35
- Raya, José M.** — (see Egusquiza, Íñigo L.) A 59, 3236
- Rayane, D.** — (see Benichou, E.) A 59, R1
- Reatto, L.** — (see Salasnich, L.) A 59, 2990
- Reichl, L. E.** — (see Timberlake, T.) A 59, 2886
- Reidl, Jürgen, András Csordás, Robert Graham, and Péter Szépfalusy** — Finite-temperature excitations of Bose gases in anisotropic traps. A 59, 3816
- Reinhardt, J.** — (see Eichmann, U.) A 59, 1223
- Reinhold, C. O.** — (see Frey, M. T.) A 59, 1434
— (see Yoshida, S.) A 59, R4121
- Reisenfeld, D. B.** — (see Janzen, P. H.) A 59, 4821(BR)
- Rella, C. W.** — (see Maas, D. J.) A 59, 1374
- Rembieliński, J.** — (see Caban, P.) A 59, 4187
- Remillieux, J.** — (see Dauvergne, D.) A 59, 2813
- Rempe, Gerhard** — (see Dürr, Stephan) A 59, 1495
- Repnow, R.** — (see Baer, A.) A 59, 1865
- Reyes, P. G.** — (see Martínez, H.) A 59, 2504(BR)
- Reznik, B.** — (see Oppenheim, J.) A 59, 1804
- Rhee, J.-K.** — (see Wang, L. J.) A 59, 1654
- Ricci, L.** — (see Prevedelli, M.) A 59, 886(BR)
- Rice, P. R.** — (see Brecha, R. J.) A 59, 2392
- Rice, Perry R.** — (see Pedrotti, Leno M.) A 59, 2295
- Richard, P.** — (see Liao, C.) A 59, 2773
- Richter, R.** — (see Kylli, T.) A 59, 4071(BR)
- Riedel, K., P. Törmä, V. Savichev, and W. P. Schleich** — Control of dynamical localization by an additional quantum degree of freedom. A 59, 797
- Riley, Merle E. and Burke Ritchie** — Numerical time-dependent Schrödinger description of charge-exchange collisions. A 59, 3544
- Ripoll, Juan J. G. and Víctor M. Pérez-García** — Barrier resonances in Bose-Einstein condensation. A 59, 2220
- Rislove, D. C., Charlie E. M. Strauss, H. C. Bryant, M. S. Gulley, David J. Funk, Xin Miao Zhao, and W. A. Miller** — Erratum: Characterization of the $1D^{\circ}$ autodetaching resonance in H^{-} and D^{-} [Phys. Rev. A 58, 1889 (1998)]. A 59, 906(E)
- Ristori, C.** — (see Benichou, E.) A 59, R1
- Ritchie, Burke** — Reaction-field-induced interatomic forces between atoms in the presence of a strong magnetic field. A 59, 4571
— (see Riley, Merle E.) A 59, 3544
- Roberts, J. L.** — (see Bennett, S. C.) A 59, R16
- Robicheaux, F.** — (see Pindzola, M. S.) A 59, 4390
- Rocco, J. C.** — (see Benichou, E.) A 59, R1
- Rochester, S., C. J. Bowers, D. Budker, D. DeMille, and M. Zolotarev** — Measurement of lifetimes and tensor polarizabilities of odd-parity states of atomic samarium. A 59, 3480
- Rohwedder, B.** — (see Pritchard, D. E.) A 59, 4641
- Rokni, Mordechai** — (see Maier-Borst, Mathias) A 59, R3162
- Roller-Lutz, Z., Y. Wang, H. O. Lutz, U. Saalmann, and R. Schmidt** — Strong temperature dependence of laser-enhanced charge transfer in collisions of sodium clusters with sodium atoms. A 59, R2555
- Rolston, S. L.** — (see Orzel, C.) A 59, 1926
- Romalis, M. V. and E. N. Fortson** — Zeeman frequency shifts in an optical dipole trap used to search for an electric dipole moment. A 59, 4547
- Romera, E., J. C. Angulo, and J. S. Dehesa** — Fisher entropy and uncertaintylike relationships in many-body systems. A 59, 4064(BR)
— (see Koga, Toshikatsu) A 59, 4805(BR)
- Romero, R. H. and G. A. Aucar** — Reply to “Comment on ‘Relativistic correction of the generalized oscillator strength sum rules’”. A 59, 4849(C)
- Rosenberg, Leonard** — Low-energy scattering by nonspherically symmetric targets. A 59, 1253
- Rosenfelder, R.** — (see Alexandrou, C.) A 59, 1762
- Rost, Jan M.** — (see van de Sand, Gerd) A 59, R1723
- Rotenberg, E.** — (see Püttner, R.) A 59, 3415
- Rottke, H.** — (see Trump, C.) A 59, 2858
- Roussel, Marc R.** — (see Beekman, Richard A.) A 59, 503
- Roversi, J. A.** — (see Moya-Cessa, H.) A 59, 2518
- Rowe, M. A., S. J. Freedman, B. K. Fujikawa, G. Gwinner, S.-Q. Shang, and P. A. Vetter** — Ground-state hyperfine measurement in laser-trapped radioactive ^{21}Na . A 59, 1869
- Roy, K.** — (see Sahoo, S.) A 59, 275
- Rubensson, J.-E.** — (see Magnuson, M.) A 59, 4281
- Rubenstein, R. A.** — (see Pritchard, D. E.) A 59, 4641
- Rubio, Alberto** — (see García-Calderón, Gastón) A 59, 1758
- Rüdel, A.** — (see Piancastelli, M. N.) A 59, 300
— (see Piancastelli, M. N.) A 59, 1336
- Rudolph, Oliver** — Temporal quantum theory. A 59, 1045
- Ruel, Jonathan** — (see Bandrauk, André D.) A 59, 2153
- Ruostekoski, J. and D. F. Walls** — Measurement scheme for relative phase diffusion between two Bose-Einstein condensates. A 59, R2571
- Ruostekoski, Janne** — (see Javanainen, Juha) A 59, 649
- Rusch, M. and K. Burnett** — Mean-field theory for excitations of trapped Bose condensates at finite temperatures. A 59, 3851
- Ruschewitz, F.** — (see Hinderthür, H.) A 59, 2216
- Ruthmann, J.** — (see Kovalenko, S. A.) A 59, 2369
- Saalmann, U.** — (see Roller-Lutz, Z.) A 59, R2555
- Sabin, John R.** — (see Cabrera-Trujillo, R.) A 59, 4850(E)
- Sacchi, M. F.** — (see D’Ariano, G. M.) A 59, 826
- Sacha, Krzysztof and Jakub Zakrzewski** — Resonant dynamics of the H atom in an elliptically polarized microwave field. A 59, 1707(BR)
- Sackett, C. A.** — (see Gerton, J. M.) A 59, 1514
- Sadeghi, S. M. and J. Meyer** — Two-field electromagnetically induced transparency and switching between ultranarrow absorption and gain features in rubidium atoms. A 59, 3998
- Sadeghpour, H. R.** — (see Marinescu, M.) A 59, 390
- Sæthre, L. J.** — (see Carroll, T. X.) A 59, 3386
- Saghiri, A. A.** — (see Schippers, S.) A 59, 3092(BR)
- Saha, Bidhan C.** — (see Kumar, Anil) A 59, 1273
- Saha, H. P.** — (see Lin, Dong) A 59, 3614
- Saha, Samir** — (see Ghosh, Swaralipi) A 59, 4475
- Sahoo, S., K. Roy, N. C. Sil, and S. C. Mukherjee** — Ionization of atomic hydrogen by slow protons. A 59, 275
- Saint, B.** — (see Opitz, J.) A 59, 3562
- Saito, Hiroki and Masahito Ueda** — Squeezed few-photon states of the field generated from squeezed atoms. A 59, 3959
- Salasnich, L., A. Parola, and L. Reatto** — Bosons in a toroidal trap: Ground state and vortices. A 59, 2990
- Saleh, Bahaa E. A.** — (see Peřina, Jan, Jr.) A 59, 2359
- Salek, P.** — (see Magnuson, M.) A 59, 4281
- Salek, Paweł, Faris Gel’mukhanov, and Hans Ågren** — Wave-packet dynamics of resonant x-ray Raman scattering: Excitation near the Cl $L_{II,III}$ edge of HCl. A 59, 1147
— (see Gel’mukhanov, Faris) A 59, 380
- Salin, F.** — (see Gaarde, M. B.) A 59, 1367
- Salk, Sung-Ho Suck** — (see Lee, Min-Ho) A 59, 1966

- Salomon, C. — (see Bouchoule, I.) A 59, R8
- Salzborn, E. — (see Melchert, F.) A 59, 4379
- Sampson, Douglas H. — (see Fontes, Christopher J.) A 59, 295
 — (see Fontes, Christopher J.) A 59, 1329
- Samuelis, Christian — (see Elbs, Michael) A 59, 3665
- Sanders, G. D., K. W. Kim, and W. C. Holton — Quantum computing with complex instruction sets. A 59, 1098
- Sanderson, J. H., A. El-Zein, W. A. Bryan, W. R. Newell, A. J. Langley, and P. F. Taday — Geometry modifications and alignment of H₂O in an intense femtosecond laser pulse. A 59, R2567
 —, T. Nishide, H. Shiromaru, Y. Achiba, and N. Kobayashi — Near-Coulombic behavior in the dissociative ionization of CO₂ due to impact by Ar⁸⁺. A 59, 4817(BR)
- Sandner, W. — (see Huang, W.) A 59, 2744
 — (see Trump, C.) A 59, 2858
- San Miguel, Maxi — (see Hoyuelos, Miguel) A 59, 1622
- Sanpera, Anna — (see Cormier, Eric) A 59, 3736
- Santamaria, Jesus — (see Solá, Ignacio R.) A 59, 4494
- Santos, J. P., F. Mota-Furtado, M. F. Laranjeira, and F. Parente — Rydberg states of atoms in parallel electric and magnetic fields. A 59, 1703(BR)
- Santos, Luis and Maciej Lewenstein — Dynamical cooling of trapped gases: One-atom problem. A 59, 613
- Sapirstein, J., K. T. Cheng, and M. H. Chen — Potential independence of the solution to the relativistic many-body problem and the role of negative-energy states in heliumlike ions. A 59, 259
- Sarasola, Cecilia — (see Mercero, José M.) A 59, 4255
- Sarkar, M. — (see Jitschin, W.) A 59, 3408
- Sasaki, Akira — (see Moribayashi, Kengo) A 59, 2732
- Sasaki, Masahide, Stephen M. Barnett, Richard Jozsa, Masao Osaki, and Osamu Hirota — Accessible information and optimal strategies for real symmetrical quantum sources. A 59, 3325
- Säthe, C. — (see Magnuson, M.) A 59, 4281
- Sauer, K. L., R. J. Fitzgerald, and W. Happer — Resonance technique to probe ¹²⁹Xe surface interactions. A 59, R1746
- Sautenkov, V. A. — (see van Kampen, H.) A 59, 271
- Savage, C. M. — (see Gordon, D.) A 59, 4623
 — (see Moy, G. M.) A 59, 667
- Savchenko, V. I., N. J. Fisch, A. A. Panteleev, and A. N. Starostin — Role of quantum interference in thermodynamic equilibrium. A 59, 708
- Savichev, V. — (see Riedel, K.) A 59, 797
- Savin, D. W. — (see Janzen, P. H.) A 59, 4821(BR)
- Schack, Rüdiger — (see Brun, Todd A.) A 59, 2649
- Schaden, Martin — (see Milonni, Peter W.) A 59, 4259
- Schafer, K. J. — (see Gaarde, M. B.) A 59, 1367
- Schäffer, H. W., R. W. Dunford, E. P. Kanter, S. Cheng, L. J. Curtis, A. E. Livingston, and P. H. Mokler — Measurement of the two-photon spectral distribution from decay of the 1s2s ¹S₀ level in heliumlike nickel. A 59, 245
- Schartner, K.-H. — (see Bosselmann, Ph.) A 59, 1874
- Scheel, S. — (see Knöll, L.) A 59, 4716
- Scheer, Michael — (see Norquist, Peggy L.) A 59, 1896
- Scheidenberger, C. — (see Dauvergne, D.) A 59, 2813
- Schieve, William C. — (see McGowan, Rebecca R.) A 59, 778
- Schiller, S. — (see Tittonen, I.) A 59, 1038
- Schiller, Stephan — (see Bruckmeier, Robert) A 59, 750
- Schippers, S., T. Bartsch, C. Brandau, A. Müller, J. Linkemann, A. A. Saghir, and A. Wolf — Experimental search for interference effects in the total e⁻ + Sc³⁺ recombination rate. A 59, 3092(BR)
- Schlachter, A. S. — (see Püttner, R.) A 59, 3415
- Schleich, W. P. — (see Averbukh, I. Sh.) A 59, 2163
 — (see Riedel, K.) A 59, 797
- Schleich, Wolfgang P. — (see Fortunato, Mauro) A 59, 714
 — (see Fortunato, Mauro) A 59, 718
- Schmaus, D. — (see Dauvergne, D.) A 59, 2813
- Schmelcher, P., M. V. Ivanov, and W. Becken — Exchange and correlation energies of ground states of atoms and molecules in strong magnetic fields. A 59, 3424
- Schmelcher, Peter — (see Averbukh, Vitali) A 59, 3695
 — (see Melezhik, Vladimir S.) A 59, 4264
- Schmidt, E. — (see Knöll, L.) A 59, 4716
- Schmidt, Eduard, Ludwig Knöll, and Dirk-Gunnar Welsch — Cumulant expansion for studying damped quantum solitons. A 59, 2442
- Schmidt, R. — (see Roller-Lutz, Z.) A 59, R2555
- Schmidt-Böcking, H. — (see Spielberger, L.) A 59, 371
- Schmiedmayer, Jörg — (see Forrey, Robert C.) A 59, R942
- Schneider, B. I. and D. L. Feder — Numerical approach to the ground and excited states of a Bose-Einstein condensed gas confined in a completely anisotropic trap. A 59, 2232
- Schneider, S. and G. J. Milburn — Decoherence and fidelity in ion traps with fluctuating trap parameters. A 59, 3766
- Scholten, R. E. — (see O'Kane, T. J.) A 59, 4485
- Schramm, S. — (see Eichmann, U.) A 59, 1223
- Schreiber, A. W. — (see Alexandrou, C.) A 59, 1762
- Schröder, H. — (see Witzel, B.) A 59, 3141(E)
- Schubert, C. — (see Schumann, R.) A 59, 2120
- Schultz, D. R. — (see Kolakowska, A.) A 59, 3588
- Schumann, R., C. Schubert, U. Eichmann, R. Jung, and G. von Oppen — Laser cooling of metastable He atoms in an inhomogeneous electric field. A 59, 2120
- Schwalm, D. — (see Baer, A.) A 59, 1865
- Schweikert, E. A. — (see Diehmelt, C. W.) A 59, 4470
- Schwob, J. L. — (see Behar, E.) A 59, 2787
 — (see Doron, R.) A 59, 188
- Scully, M. O. — (see Kozlov, V. V.) A 59, 3060
- Scully, Marlan O. — (see Kozlov, Victor V.) A 59, 3986
- Segawa, Yusaburo — (see Zeng, Heping) A 59, 2174
 — (see Zeng, Heping) A 59, 4589
- Segev, B. — (see Wells, J. C.) A 59, 346
- Seidl, Michael, John P. Perdew, and Mel Levy — Strictly correlated electrons in density-functional theory. A 59, 51
- Sellin, I. A. — (see Huang, M.-T.) A 59, 3397
 — (see Wehlitz, R.) A 59, 421
- Semaoune, Rachid — (see Poirier, Michel) A 59, 3471
- Sen, Sanjay — (see Ghosh, Swaralipi) A 59, 4475
- Sengstock, K. — (see Hinderthür, H.) A 59, 2216
- Sepp, W.-D. — (see Varga, S.) A 59, 4288
- Sergeyev, S. V. — Spontaneous light-polarization symmetry breaking for an anisotropic ring-cavity dye laser. A 59, 3909
- Sergienko, Alexander V. — (see Peřina, Jan, Jr.) A 59, 2359
- Severson, M. C. — (see Caldwell, C. D.) A 59, R926
- Shahriar, M. S. — (see Ham, B. S.) A 59, R2583
- Shakeshaft, Robin — (see Groses, Thomas) A 59, 3088(BR)
- Shakhmuratov, R. N. — Transient nutation signal locking. A 59, 3788
 — (see Agnello, S.) A 59, 4087(BR)
- Shalaev, Vladimir M. — (see Popov, Alexander K.) A 59, R946
- Shalagin, A. — (see Privalov, T.) A 59, 4331
- Shang, S.-Q. — (see Rowe, M. A.) A 59, 1869
- Shapiro, D. A. — (see Babin, S. A.) A 59, 1355
- Shapiro, M. — (see Averbukh, I. Sh.) A 59, 2163
- Sharma, Anju — (see Man'ko, Vladimir) A 59, 1809
- Sharma, K. K. — (see Gurjar, R. S.) A 59, 512
- Sharma, N. K. — (see Sharma, S. Shelly) A 59, 3138(C)
- Sharma, S. Shelly, N. K. Sharma, and Larry Zamick — Reply to "Comment on 'Single two-level ion in an anharmonic oscillator trap: Time evolution of the Q function and population inversion' ". A 59, 3138(C)
- Sharpe, S. J. — (see Xia, Hui) A 59, R3190
- Shenoy, S. R. — (see Raghavan, S.) A 59, 620
- Shi, Hualin and Wei-Mou Zheng — Temperature-dependent frequency shifts in collective excitations of a Bose-Einstein condensate. A 59, 1562

- Shiell, R. C., M. Evans, S. Stimson, C.-W. Hsu, C. Y. Ng, and J. W. Hepburn** — Characteristics of correlation satellites below 25 eV in xenon probed by pulsed-field-ionization–zero-kinetic-energy photoelectron spectroscopy. *A* **59**, 2903
- Shifman, M. and A. Turbiner** — Energy-reflection symmetry of Lie-algebraic problems: Where the quasiclassical and weak-coupling expansions meet. *A* **59**, 1791
- Shimizu, Kaoru, Nobuyuki Imoto, and Takaaki Mukai** — Dense coding in photonic quantum communication with enhanced information capacity. *A* **59**, 1092
- Shimizu, T.** — (see Takahashi, Y.) *A* **59**, 3761
- Shiromaru, H.** — (see Sanderson, J. H.) *A* **59**, 4817(BR)
- Shkolnikov, P. L., A. E. Kaplan, and S. F. Straub** — δ ionization: Stratified symmetrical electron emission and resonantly structured ionization continuum. *A* **59**, 490
- Shor, Peter W.** — (see Bennett, Charles H.) *A* **59**, 1070
— (see DiVincenzo, David P.) *A* **59**, 1717(E)
- Shore, B. W.** — (see Fleischhauer, M.) *A* **59**, 3751
— (see Unanyan, R. G.) *A* **59**, 2910
— (see Yatsenko, L. P.) *A* **59**, 2926
- Sidis, V.** — (see Babikov, D.) *A* **59**, 330
- Sidis, Victor** — (see Deutscher, Stefan A.) *A* **59**, 4446
- Sidky, Emil Y., Wolfgang Fritsch, and C. D. Lin** — Total and state-selective electron-capture cross sections for N^{4+} -H collisions. *A* **59**, 1994
- Siegel, R. T.** — (see Kirch, K.) *A* **59**, 3375
- Sieglauff, D. R., B. G. Lindsay, K. A. Smith, and R. F. Stebbings** — Absolute differential and total cross sections for charge transfer of O^+ with H_2 . *A* **59**, 3538
- Sigaud, G. M.** — (see Voitkiv, A. B.) *A* **59**, 2794
- Sil, N. C.** — (see Sahoo, S.) *A* **59**, 275
- Simard, Benoit** — (see Looock, Hans-Peter) *A* **59**, 873(BR)
- Simkin, M. V. and E. G. D. Cohen** — Magnetic properties of a Bose-Einstein condensate. *A* **59**, 1528
- Simons, L. M.** — (see Kirch, K.) *A* **59**, 3375
- Simonucci, S.** — (see Coreno, M.) *A* **59**, 2494(BR)
- Simsarian, J. E., W. Z. Zhao, L. A. Orozco, and G. D. Sprouse** — Two-photon spectroscopy of the francium $8S_{1/2}$ level. *A* **59**, 195
- Sinatra, Alice** — (see Hoyuelos, Miguel) *A* **59**, 1622
- Singh, Nirmal** — (see Mehta, D.) *A* **59**, 2723
- Sinha, A. K.** — (see Bhardwaj, V. R.) *A* **59**, 3105(BR)
- Sinha, C.** — (see Nath, B.) *A* **59**, 455
- Sipe, J. E.** — (see Spekkens, R. W.) *A* **59**, 3868
- Sizun, M.** — (see Babikov, D.) *A* **59**, 330
- Skála, L., J. Cížek, E. J. Weniger, and J. Zamastil** — Large-order behavior of the convergent perturbation theory for anharmonic oscillators. *A* **59**, 102
- Skogvall, B.** — (see Stolterfoht, N.) *A* **59**, 1262
- Skowronek, S.** — (see Stert, V.) *A* **59**, R1727
- Smeets, C. J. C.** — (see van Kampen, H.) *A* **59**, 271
- Smerzi, A.** — (see Raghavan, S.) *A* **59**, 620
- Smith, E. T.** — (see Pritchard, D. E.) *A* **59**, 4641
- Smith, K. A.** — (see Sieglauff, D. R.) *A* **59**, 3538
- Smith, R., G. J. Tallents, J. Zhang, G. Eker, S. McCabe, G. J. Pert, and E. Wolfrum** — Saturation behavior of two x-ray lasing transitions in Ni-like Dy. *A* **59**, R47
- Smith, Steven J.** — (see Greenwood, J. B.) *A* **59**, 1348
- Smolin, John A.** — (see Bennett, Charles H.) *A* **59**, 1070
— (see DiVincenzo, David P.) *A* **59**, 1717(E)
- Smyth, W. S. and S. Swain** — Complete quenching of fluorescence from a two-level atom driven by a weak, narrow-band, nonclassical light field. *A* **59**, R2579
- Söderholm, Jonas, Gunnar Björk, Tedros Tsegaye, and Alexei Trifonov** — States that minimize the evolution time to become an orthogonal state. *A* **59**, 1788
- Sohma, M.** — (see Holevo, A. S.) *A* **59**, 1820
- Sokol, Michael** — (see Pedrotti, Leno M.) *A* **59**, 2295
- Sokolovski, D.** — Measurable characteristics of a nonrelativistic quantum particle. *A* **59**, 1003
- Solá, Ignacio R., Vladimir S. Malinovsky, Bo Y. Chang, Jesus Santamaria, and Klaas Bergmann** — Coherent population transfer in three-level Λ systems by chirped laser pulses: Minimization of the intermediate-level population. *A* **59**, 4494
- Solano, E., R. L. de Matos Filho, and N. Zagury** — Deterministic Bell states and measurement of the motional state of two trapped ions. *A* **59**, R2539
- Song, Dae-Yup** — Exact quantum states of a general time-dependent quadratic system from classical action. *A* **59**, 2616
- Sørensen, Allan H.** — (see Ionescu, Dorin C.) *A* **59**, 3527
- Spavieri, Gianfranco** — Quantum effect for an electric dipole. *A* **59**, 3194
- Spekkens, R. W. and J. E. Sipe** — Spatial fragmentation of a Bose-Einstein condensate in a double-well potential. *A* **59**, 3868
- Spielberger, L., H. Bräuning, A. Muthig, J. Z. Tang, J. Wang, Y. Qiu, R. Dörner, O. Jagutzki, Th. Tschentscher, V. Honkimäki, V. Mergel, M. Achler, Th. Weber, Kh. Khayyat, J. Burgdörfer, J. McGuire, and H. Schmidt-Böcking** — Cross-section ratio of double to single ionization of helium by Compton scattering of 40–100-keV x rays. *A* **59**, 371
- Spieler, A.** — (see Bedouet, C.) *A* **59**, 4399
- Springborg, Michael** — (see Dahl, Jens Peder) *A* **59**, 4099(C)
- Sprouse, G. D.** — (see Simsarian, J. E.) *A* **59**, 195
- Spruch, Larry** — (see Milonni, Peter W.) *A* **59**, 4259
- Sprung, D. W. L.** — (see Friar, J. L.) *A* **59**, 4061(BR)
- Srawley, Raphaël A.** — (see Norquist, Peggy L.) *A* **59**, 1896
- Stalnaker, J. E.** — (see Bowers, C. J.) *A* **59**, 3513
- Starace, Anthony F.** — (see Liu, Chien-Nan) *A* **59**, R1731
— (see Liu, Chien-Nan) *A* **59**, 3643
- Starostin, A. N.** — (see Savchenko, V. I.) *A* **59**, 708
- Staupe, U.** — (see Bosselmann, Ph.) *A* **59**, 1874
- Stavros, V. G.** — (see Ramswell, J. A.) *A* **59**, 2186
- Stebbing, R. F.** — (see Sieglauff, D. R.) *A* **59**, 3538
- Steinsland, E.** — (see Tittonen, I.) *A* **59**, 1038
- Stenholm, S.** — (see Bardroff, P. J.) *A* **59**, R950
- Stenholm, Stig** — (see Andersson, Erika) *A* **59**, 3841
— (see Öhberg, Patrik) *A* **59**, 3890
- Sterr, U.** — (see Orzel, C.) *A* **59**, 1926
- Stert, V., P. Farmanara, W. Radloff, F. Noack, S. Skowronek, J. Jimenez, and A. González Ureña** — Real-time study of the femtosecond harpooning reaction in $Ba \cdots FCH_3$. *A* **59**, R1727
- Stimson, S.** — (see Shiell, R. C.) *A* **59**, 2903
- Stock, Gerhard** — (see Thoss, Michael) *A* **59**, 64
- Stöhlker, Th.** — (see Dauvergne, D.) *A* **59**, 2813
- Stoicheff, B. P.** — (see Tokaryk, D. W.) *A* **59**, 3116(BR)
- Stolterfoht, N., J.-Y. Chesnel, M. Grether, J. A. Tanis, B. Skogvall, F. Frémont, D. Leclerc, D. Hennecart, X. Husson, J. P. Grandin, F. S. Koncz, L. Gulyás, and B. Sulik** — Two- and three-body effects in single ionization of Li by 95-MeV/u Ar^{18+} projectiles: Analogies with photoionization. *A* **59**, 1262
— (see Bedouet, C.) *A* **59**, 4399
- Stoof, H. T. C.** — (see Houbiers, M.) *A* **59**, 1556
- Stötz, R.** — (see Jitschin, W.) *A* **59**, 3408
- Stranges, S.** — (see Kylli, T.) *A* **59**, 4071(BR)
- Straub, S. F.** — (see Shkolnikov, P. L.) *A* **59**, 490
- Straub, Steffen Frank and Matthias Freyberger** — Longitudinal quantum interferometry. *A* **59**, 3832
- Strauss, Charlie E. M.** — (see Rislove, D. C.) *A* **59**, 906(E)
- Streun, M., G. Baum, W. Blask, and J. Berakdar** — Role of exchange and kinematic in the generation of low-energy polarized electron pairs. *A* **59**, R4109
- Stroud, C. R., Jr.** — (see Bellomo, Paolo) *A* **59**, 900(C)
— (see Bellomo, Paolo) *A* **59**, 2139
- Sturru, W. G.** — (see Komara, R. A.) *A* **59**, 251
- Stwalley, W. C.** — (see Bohn, John L.) *A* **59**, 3660
- Su, Q.** — (see Braun, J. W.) *A* **59**, 604
- Sueoka, Osamu** — (see Tanaka, Hiroshi) *A* **59**, 2006
- Sugai, I.** — (see Torii, H. A.) *A* **59**, 223
- Sukenik, C. I. and T. Walker** — Role of spontaneous emission in ultracold two-color optical collisions. *A* **59**, 889(BR)

- Sulik, B.** — (see Bedouet, C.) A 59, 4399
 — (see Stolterfoht, N.) A 59, 1262
- Sultanov, R. A.** — (see Adhikari, Sadhan K.) A 59, 4829(BR)
- Summy, G. S.** — (see Godun, R. M.) A 59, 3775
- Sundholm, Dage** — Finite-element multiconfiguration Hartree-Fock calculations of the atomic quadrupole moment of $\text{Ar}^+ (^2P_{3/2})$. A 59, 3355
- Sung, C. C.** — (see Dobson, Chris C.) A 59, 3402
- Suno, Hiroya, Lidija Andric, Tasko P. Grozdanov, and Ronald McCarroll** — Circular Rydberg states in parallel electric and magnetic fields. A 59, 524
- Suominen, K.-A.** — (see Lütkenhaus, N.) A 59, 3295
 — (see Vitanov, N. V.) A 59, 4580
- Suominen, Kalle-Antti** — (see Machholm, Mette) A 59, R4113
- Suzor-Weiner, A.** — (see Carata, L.) A 59, 2804
- Suzuki, T.** — (see Dauvergne, D.) A 59, 2813
- Swain, S.** — (see Smyth, W. S.) A 59, R2579
 — (see Zhou, Peng) A 59, 841
 — (see Zhou, Peng) A 59, 1603
 — (see Zhou, Peng) A 59, 3745
- Szczurek, M.** — (see Doron, R.) A 59, 188
- Szépfaussy, Péter** — (see Reidl, Jürgen) A 59, 3816
- Tabosa, J. W. R.** — (see Cardoso, G. C.) A 59, 1408
- Tachibana, Yoshio** — (see Tanaka, Hiroshi) A 59, 2006
- Tachimori, S.** — (see Baştuğ, T.) A 59, 3690
- Taday, P. F.** — (see Sanderson, J. H.) A 59, R2567
- Tajima, T.** — (see Moribayashi, Kengo) A 59, 2732
- Takahashi, Y., T. Shimizu, N. Tanaka, K. Honda, K. Toyoda, and T. Yabuzaki** — Observation of spin echoes of laser-cooled Rb atoms. A 59, 3761
 — (see Honda, K.) A 59, R934
 — (see Isayama, T.) A 59, 4836(BR)
- Takaki, Hideki** — (see Tanaka, Hiroshi) A 59, 2006
- Takami, Michio** — (see Matsuo, Yukari) A 59, 2071
- Takatsuka, Kazuo** — (see Inoue-Ushiyama, Atsuko) A 59, 3256
- Takekoshi, T., B. M. Patterson, and R. J. Knize** — Observation of cold ground-state cesium molecules produced in a magneto-optical trap. A 59, R5
 — (see Patterson, B. M.) A 59, 2508(BR)
- Takenaka, Hisataka** — (see Yamada, Koji) A 59, 3673
- Tallents, G. J.** — (see Smith, R.) A 59, R47
- Tamaki, Yusuke, Yutaka Nagata, Minoru Obara, and Katsumi Midorikawa** — Phase-matched high-order-harmonic generation in a gas-filled hollow fiber. A 59, 4041
- Tanaka, Hiroshi, Yoshio Tachibana, Masashi Kitajima, Osamu Sueoka, Hideki Takaki, Akira Hamada, and Mineo Kimura** — Total cross sections of electron and positron collisions with C_3F_8 and C_3H_8 molecules and differential elastic and vibrational excitation cross sections by electron impact on these molecules. A 59, 2006
- Tanaka, N.** — (see Isayama, T.) A 59, 4836(BR)
 — (see Takahashi, Y.) A 59, 3761
- Tanatar, B.** — (see Bayindir, M.) A 59, 1468
- Tang, J. Z.** — (see Spielberger, L.) A 59, 371
- Tanis, J. A.** — (see Stolterfoht, N.) A 59, 1262
- Taouil, I.** — (see Lahmam-Bennani, A.) A 59, 3548
- Tapster, P. R.** — (see Rarity, J. G.) A 59, R35
- Tarrach, Rolf** — (see Vidal, Guifré) A 59, 141
- Tasaki, Seiji** — (see Hino, Masahiro) A 59, 2261
- Tatarek, R.** — (see Pedemonte, L.) A 59, 3084(BR)
- Tate, D. A. and J. P. Walton** — Hyperfine-structure intervals and isotope shifts in the $3p^4 4s\ ^4P_J \rightarrow 3p^4 4p\ ^4D_J'$ fine-structure multiplet of atomic chlorine by diode laser spectroscopy. A 59, 1170
- Tawara, H., K. Hosaka, and N. Matsunami** — Secondary-electron emission from nonmetallic (perovskite) surfaces under slow proton impact: Absence of apparent threshold. A 59, 3095(BR)
- Tayal, S. S. and C. A. Beatty** — Oscillator strengths and electron-excitation cross sections for atomic nitrogen. A 59, 3622
- Teich, Malvin C.** — (see Peřina, Jan, Jr.) A 59, 2359
- Telles, G. D., L. G. Marcassa, S. R. Muniz, S. G. Miranda, A. Antunes, C. Westbrook, and V. S. Bagnato** — Inelastic cold collisions of a Na/Rb mixture in a magneto-optical trap. A 59, R23
 — (see Miranda, S. G.) A 59, 882(BR)
- Tel'nov, Dmitry A. and Shih-I Chu** — Multiphoton detachment of H^- near the one-photon threshold: Exterior complex-scaling-generalized pseudospectral method for complex quasienergy resonances. A 59, 2864
- Terno, Daniel R.** — Nonlinear operations in quantum-information theory. A 59, 3320
- Teubner, P. J. O.** — (see Karaganov, V.) A 59, 4407
- Texier, F. and Ch. Jungen** — Wave packets using generalized multichannel quantum-defect theory. A 59, 412
- Thakkar, Ajit J.** — (see Koga, Toshikatsu) A 59, 4805(BR)
- Thapliyal, Ashish V.** — Multipartite pure-state entanglement. A 59, 3336
- Themelis, Spyros I. and Cleanthes A. Nicolaides** — Quantum-mechanical versus semiclassical calculations of dc-field-induced tunneling rates of $\text{Li } 1s^2 2s\ ^2S$, $1s^2 2p\ ^2P^o$, and $1s^2 3d\ ^2D$. A 59, 2500(BR)
- Thomas, T. D.** — (see Carroll, T. X.) A 59, 3386
- Thompson, J. S.** — (see Williams, W. W.) A 59, 4368
- Thompson, R. C.** — (see Horvath, G. Zs. K.) A 59, 4530
- Thoss, Michael and Gerhard Stock** — Mapping approach to the semiclassical description of nonadiabatic quantum dynamics. A 59, 64
- Tian, Cechan and C. R. Vidal** — Multiple ionization of CO due to electron impact. A 59, 1955
- Tiemann, E.** — (see Babin, S. A.) A 59, 1355
- Tiemann, Eberhard** — (see Elbs, Michael) A 59, 3665
- Tikhonov, George** — (see Brockhaus, Peter) A 59, 495
- Timberlake, T. and L. E. Reichl** — Changes in Floquet-state structure at avoided crossings: Delocalization and harmonic generation. A 59, 2886
- Tino, G. M.** — (see Prevedelli, M.) A 59, 886(BR)
- Tittel, W., J. Brendel, N. Gisin, and H. Zbinden** — Long-distance Bell-type tests using energy-time entangled photons. A 59, 4150
- Tittonen, I., G. Breitenbach, T. Kalkbrenner, T. Müller, R. Conradt, S. Schiller, E. Steinsland, N. Blanc, and N. F. de Rooij** — Interferometric measurements of the position of a macroscopic body: Towards observation of quantum limits. A 59, 1038
- Tlidi, M. and Paul Mandel** — Space-time localized structures in the degenerate optical parametric oscillator. A 59, R2575
- Tokaryk, D. W., G. Z. Zhang, and B. P. Stoicheff** — Nonlinear optical generation in a hydrogen discharge. A 59, 3116(BR)
- Tokman, Maria** — (see Labzowsky, Leonti) A 59, 2707
- Toller, M.** — Localization of events in space-time. A 59, 960
- Toma, E. S.** — (see Maas, D. J.) A 59, 1374
- Tombesi, P.** — (see Vitali, D.) A 59, 4178
- Tombesi, Paolo** — (see Fortunato, Mauro) A 59, 718
- Tomio, Lauro** — (see Coutinho, F. A. B.) A 59, 2624
- Tommasini, R., F. Löwenthal, and J. E. Balmer** — Saturation in a Ni-like Pd soft-x-ray laser at 14.7 nm. A 59, 1577
- Toral, Raúl** — (see Mayol, Catalina) A 59, 4690
- Torii, H. A., R. S. Hayano, M. Hori, T. Ishikawa, N. Morita, M. Kumakura, I. Sugai, T. Yamazaki, B. Ketzner, F. J. Hartmann, T. von Egidy, R. Pohl, C. Maierl, D. Horváth, J. Eades, and E. Widmann** — Laser measurements of the density shifts of resonance lines in antiprotonic helium atoms and stringent constraint on the antiproton charge and mass. A 59, 223
- Törmä, P.** — (see Riedel, K.) A 59, 797
- Toshima, Nobuyuki** — Convergence and completeness of the pseudostate expansion for proton-hydrogen collisions in two-center close-coupling calculations. A 59, 1981
- Tóth, C.** — (see Kim, D.) A 59, R4129
- Toulemonde, M.** — (see Dauvergne, D.) A 59, 2813

- Toyama, F. M. and Y. Nogami** — Harmonic oscillators in relativistic quantum mechanics. A 59, 1056
- Toyoda, K.** — (see Honda, K.) A 59, R934
- (see Isayama, T.) A 59, 4836(BR)
- (see Takahashi, Y.) A 59, 3761
- Toyoda, Tadashi and Sumiko Wakayama** — Coherent states for the Kepler motion. A 59, 1021
- Tran, P.** — Population transfer through the continuum: ir excitation of HeH^+ . A 59, 1444
- Trehan, P. N.** — (see Mehta, D.) A 59, 2723
- Trifonov, Alexei** — (see Söderholm, Jonas) A 59, 1788
- Tripathi, D. N.** — (see Khajuria, Y.) A 59, 1197
- Trippenbach, M.** — (see Band, Y. B.) A 59, 3823
- Trost, J.** — (see Friedrich, H.) A 59, 1683(BR)
- Trump, C., H. Rottke, and W. Sandner** — Multiphoton ionization of dissociating D_2^+ molecules. A 59, 2858
- Tsentscher, Th.** — (see Spielberger, L.) A 59, 371
- Tsegaye, Tedros** — (see Söderholm, Jonas) A 59, 1788
- Tseng, C. H., D. Enzer, G. Gabrielse, and F. L. Walls** — 1-bit memory using one electron: Parametric oscillations in a Penning trap. A 59, 2094
- Tsuchida, H.** — (see Itoh, A.) A 59, 4428
- Tsukada, N., M. Gotoda, Y. Nomura, and T. Isu** — Laser-assisted coherent atomic tunneling between two trapped Bose-Einstein condensates. A 59, 3862
- , Y. Nomura, and T. Isu — Complete population transfer between nonresonant tunneling states induced by a train of laser pulses. A 59, 2852
- Tuboy, A. M.** — (see Milori, D. M. B. P.) A 59, 3101(BR)
- Turbiner, A.** — (see Shifman, M.) A 59, 1791
- Tuvi, Inbal and Y. B. Band** — Nonadiabatic coupling using a corrected Born-Oppenheimer basis: The vibronic spectrum of HD^+ . A 59, 2680
- Ueda, Masahito** — (see Saito, Hiroki) A 59, 3959
- Ugalde, Jesus M.** — (see Mercero, José M.) A 59, 4255
- Uiterwaal, C. J. G. J.** — (see Witzel, B.) A 59, 3141(E)
- Ujihara, Kikuo** — (see Dung, Ho Trung) A 59, 2524(BR)
- Unanyan, R.** — (see Fleischhauer, M.) A 59, 3751
- Unanyan, R. G., B. W. Shore, and K. Bergmann** — Laser-driven population transfer in four-level atoms: Consequences of non-Abelian geometrical adiabatic phase factors. A 59, 2910
- Unruh, W.** — Nonlocality, counterfactuals, and quantum mechanics. A 59, 126
- Radiation reaction fields for an accelerated dipole for scalar and electromagnetic radiation. A 59, 131
- Unruh, W. G.** — (see Oppenheim, J.) A 59, 1804
- Uskov, D. B.** — (see Melchert, F.) A 59, 4379
- Vaeck, N.** — (see Bedouet, C.) A 59, 4399
- Vager, Z.** — (see Baer, A.) A 59, 1865
- Vaidman, Lev and Nadav Yoran** — Methods for reliable teleportation. A 59, 116
- Vallée, G.** — (see Maamache, M.) A 59, 1777
- Valli, Christophe, Christophe Blondel, and Christian Delsart** — Measuring electron affinities with the photodetachment microscope. A 59, 3809
- van Abeelen, F. A. and B. J. Verhaar** — Determination of collisional properties of cold Na atoms from analysis of bound-state photoassociation and Feshbach resonance field data. A 59, 578
- van Dam, Wim** — (see Hardy, Lucien) A 59, 2635
- Vandenbosch, R.** — Statistical model for fragmentation of C_{60} . A 59, 3584
- van der Hart, Hugo W.** — Energies of metastable $4S^o$ states in the alkaline-earth sequence. A 59, 1125
- van der Lee, A. M.** — (see Dutra, S. M.) A 59, 4699
- van de Sand, Gerd and Jan M. Rost** — Semiclassical time-dependent propagation in three dimensions for a Coulomb potential. A 59, R1723
- van Druten, N. J.** — (see Dutra, S. M.) A 59, 4699
- van Duijn, Ernst and H. G. Muller** — Detachment rates of H^{2-} in an intense linearly polarized laser field. A 59, 1423
- van Enk, S. J., H. J. Kimble, J. I. Cirac, and P. Zoller** — Quantum communication with dark photons. A 59, 2659
- van Exter, M. P.** — (see Dutra, S. M.) A 59, 4699
- (see Hendriks, R. F. M.) A 59, 765
- Vanier, Jacques** — (see Godone, Aldo) A 59, R12
- van Kampen, H., V. A. Sautenkov, C. J. C. Smeets, E. R. Eliel, and J. P. Woerdman** — Measurement of the excitation dependence of the Lorentz local-field shift. A 59, 271
- Van Stipdonk, M. J.** — (see Diehnelt, C. W.) A 59, 4470
- Varga, S., E. Engel, W.-D. Sepp, and B. Fricke** — Systematic study of the Ib diatomic molecules Cu_2 , Ag_2 , and Au_2 using advanced relativistic density functionals. A 59, 4288
- Vassen, Wim** — (see Kips, Annemieke) A 59, 2948
- Vedral, V.** — (see Murao, M.) A 59, 156
- Venugopalan, Anu and G. S. Agarwal** — Superrevivals in the quantum dynamics of a particle confined in a finite square-well potential. A 59, 1413
- Veretennicoff, I.** — (see Erneux, Thomas) A 59, 4660
- Verhaar, B. J.** — (see van Abeelen, F. A.) A 59, 578
- Vestergaard, Bjarne** — (see Javanainen, Juha) A 59, 649
- Vetter, P. A.** — (see Rowe, M. A.) A 59, 1869
- Vezin, B.** — (see Benichou, E.) A 59, R1
- Vianna, S. S.** — (see Cardoso, G. C.) A 59, 1408
- Vidal, C. R.** — (see Tian, Cechan) A 59, 1955
- Vidal, Guifré and Rolf Tarrach** — Robustness of entanglement. A 59, 141
- Vidiella-Barranco, A.** — (see Moya-Cessa, H.) A 59, 2518
- Viel, D.** — (see Kirch, K.) A 59, 3375
- Vijayalakshmi, K.** — (see Bhardwaj, V. R.) A 59, 1392
- (see Bhardwaj, V. R.) A 59, 3105(BR)
- Vilaseca, R.** — (see Mompart, J.) A 59, 3038
- Villaeys, A. A. and F. P. Lohner** — Influence of the pure vibrational dephasing processes on the dip structure in pumped sum-frequency generation spectroscopy. A 59, 3926
- Villain, Pierre and Maciej Lewenstein** — Dephasing of Josephson oscillations between two coupled Bose-Einstein condensates. A 59, 2250
- Villavicencio, Jorge** — (see García-Calderón, Gastón) A 59, 1758
- Visser, Matt** — Some general bounds for one-dimensional scattering. A 59, 427
- Vitali, D. and P. Tombesi** — Using parity kicks for decoherence control. A 59, 4178
- Vitanov, N. V.** — Transition times in the Landau-Zener model. A 59, 988
- and K.-A. Suominen — Nonlinear level-crossing models. A 59, 4580
- Vogel, Kurt R.** — (see Dinneen, Timothy P.) A 59, 1216
- Vogel, W.** — (see Kis, Z.) A 59, R39
- (see Moya-Cessa, H.) A 59, 2920
- (see Wallentowitz, S.) A 59, 531
- Voitkiv, A. B., G. M. Sigaud, and E. C. Montenegro** — Nonperturbative theory of projectile-electron loss in fast collisions with heavy atomic targets. A 59, 2794
- Vo Ky, L.** — (see Zhou, H. L.) A 59, 462
- von Busch, F., U. Kuetsgens, J. Doppelfeld, and S. Fritzsche** — $L_{23}[L_{23}]\text{-MM}[L_{23}]$ and $L_{23}[M^2]\text{-MM}[M^2]$ Auger vacancy satellite spectra of argon. A 59, 2030
- von Egidy, T.** — (see Torii, H. A.) A 59, 223
- von Oppen, G.** — (see Schumann, R.) A 59, 2120
- Vorobeichik, Ilya and Nimrod Moiseyev** — Revealing broad overlapping resonances by strong laser fields. A 59, 1699(BR)
- and Nimrod Moiseyev — Tunneling control by high-frequency driving. A 59, 2511(BR)
- Vos, Willem L.** — (see Megens, Mischa) A 59, 4727

- Wagh, Apoorva G.** — Comment on “Geometric phase in coupled neutron interference loops”. A **59**, 1715(C)
- Wakayama, Sumiko** — (see Toyoda, Tadashi) A **59**, 1021
- Walhout, M.** — (see Orzel, C.) A **59**, 1926
- Walker, T.** — (see Sukenik, C. I.) A **59**, 889(BR)
- Walkiewicz, M. R.** — (see O’Kane, T. J.) A **59**, 4485
- Wallenius, J.** — (see Jonsell, S.) A **59**, 3440
- Wallentowitz, S., W. Vogel, and P. L. Knight** — High-order nonlinearities in the motion of a trapped atom. A **59**, 531
 — (see Kis, Z.) A **59**, R39
 — (see Moya-Cessa, H.) A **59**, 2920
- Walls, D. F.** — (see Jack, M. W.) A **59**, 2306
 — (see Jack, M. W.) A **59**, 2962
 — (see Ruostekoski, J.) A **59**, R2571
- Walls, F. L.** — (see Deng, J. Q.) A **59**, 773
 — (see Tseng, C. H.) A **59**, 2094
- Walser, R., J. Williams, J. Cooper, and M. Holland** — Quantum kinetic theory for a condensed bosonic gas. A **59**, 3878
 — (see Williams, J.) A **59**, R31
- Walters, H. R. J.** — (see Keller, S.) A **59**, 1284
- Walton, J. P.** — (see Tate, D. A.) A **59**, 1170
- Wang, Bingbing, Xiaofeng Li, and Panming Fu** — Polarization effects in high-harmonic generation in the presence of static-electric field. A **59**, 2894
- Wang, Cai-Zhuang** — (see Jackson, Koblar) A **59**, 3685
- Wang, H.** — (see Bohn, John L.) A **59**, 3660
- Wang, J.** — (see Spielberger, L.) A **59**, 371
- Wang, J. X. and Y. K. Ho** — Energy-exchange characteristics in ordinary and nonlinear Compton scattering. A **59**, 4522
- Wang, L. J. and J.-K. Rhee** — Propagation of transient quantum coherence. A **59**, 1654
- Wang, Qing-Qi** — (see Li, Shu-Min) A **59**, 1697
- Wang, Shijun** — (see Zhu, Yifu) A **59**, 4005
- Wang, Y.** — (see Roller-Lutz, Z.) A **59**, R2555
- Wang, Yuzhu** — (see Yin, Jianping) A **59**, 1717(E)
 — (see Zeng, Heping) A **59**, 2174
 — (see Zeng, Heping) A **59**, 4589
- Ward, S. J., J. H. Macek, and S. Yu. Ovchinnikov** — Application of the hidden-crossing method to positronium formation. A **59**, 4418
- Warwick, T.** — (see Püttner, R.) A **59**, 3415
- Wąsik, Gabriela** — (see Pinard, Michel) A **59**, 848
- Watanabe, S.** — (see Yoshida, S.) A **59**, R4121
- Watanabe, Shinichi** — (see Miyashita, Naoyuki) A **59**, 4385
- Watson, D. K. and B. A. McKinney** — Improved large- N limit for Bose-Einstein condensates from perturbation theory. A **59**, 4091(BR)
 — (see Carzoli, J. C.) A **59**, 182
 — (see Dunn, M.) A **59**, 1109
- Weatherford, Charles A.** — (see Bouferguene, Ahmed) A **59**, 2712
- Webb, C. L.** — (see Godun, R. M.) A **59**, 3775
- Webb, J. K.** — (see Dzuba, V. A.) A **59**, 230
- Weber, Th.** — (see Spielberger, L.) A **59**, 371
- Wehlitz, R., L. S. Pibida, J. C. Levin, and I. A. Sellin** — Observation of angular correlation between subsequently emitted Auger electrons. A **59**, 421
 — (see Huang, M.-T.) A **59**, 3397
- Wei, Changjiang** — (see Greentree, Andrew D.) A **59**, 4083(BR)
- Weigold, E.** — (see Brunger, M. J.) A **59**, 1245
- Weiss, David S.** — (see Winoto, S. Lukman) A **59**, R19
- Weitz, M.** — (see Huber, A.) A **59**, 1844
- Wellegehausen, B.** — (see Babin, S. A.) A **59**, 1355
- Wells, J. C., B. Segev, and J. Eichler** — Asymptotic channels and gauge transformations of the time-dependent Dirac equation for extremely relativistic heavy-ion collisions. A **59**, 346
- Welsch, D.-G.** — (see Dakna, M.) A **59**, 1658
 — (see Knöll, L.) A **59**, 4716
- Welsch, Dirk-Gunnar** — (see Schmidt, Eduard) A **59**, 2442
- Weniger, E. J.** — (see Skála, L.) A **59**, 102
- Westbrook, C.** — (see Telles, G. D.) A **59**, R23
- Wester, R.** — (see Baer, A.) A **59**, 1865
- Whelan, C. T.** — (see Keller, S.) A **59**, 1284
- Whelan, N. D.** — (see Bhaduri, R. K.) A **59**, R911
- White, J. K. and J. V. Moloney** — Multichannel communication using an infinite dimensional spatiotemporal chaotic system. A **59**, 2422
- Whitfield, S. B.** — (see Caldwell, C. D.) A **59**, R926
- Widmann, E.** — (see Torii, H. A.) A **59**, 223
- Wieman, C. E.** — (see Bennett, S. C.) A **59**, R16
- Wijnhoven, Judith E. G. J.** — (see Megens, Mischa) A **59**, 4727
- Wilhein, T.** — (see Doron, R.) A **59**, 188
- Williams, J., R. Walser, J. Cooper, E. Cornell, and M. Holland** — Nonlinear Josephson-type oscillations of a driven, two-component Bose-Einstein condensate. A **59**, R31
 — (see Walser, R.) A **59**, 3878
- Williams, W. W., D. L. Carpenter, A. M. Covington, and J. S. Thompson** — Fine-structure resolved measurements of photoelectron angular distributions of Ge^- at visible photon wavelengths. A **59**, 4368
- Wills, A. A.** — (see Farhat, A.) A **59**, 320
- Wilson, M.** — (see Martin, N. L. S.) A **59**, 2764
- Wilson, P. J.** — (see Beekman, Richard A.) A **59**, 503
- Windholz, L.** — (see Korsunsky, E. A.) A **59**, 2302
- Winoto, S. Lukman, Marshall T. DePue, Nathan E. Bramall, and David S. Weiss** — Laser cooling at high density in deep far-detuned optical lattices. A **59**, R19
- Witzel, B., C. J. G. J. Uiterwaal, H. Schröder, D. Charalambidis, and K.-L. Kompa** — Erratum: Analysis of multiphoton ionization of metal atoms in the saturation regime using subpicosecond KrF laser pulses [Phys. Rev. A **58**, 3836 (1998)]. A **59**, 3141(E)
- Woerdman, J. P.** — (see Dutra, S. M.) A **59**, 4699
 — (see Hendriks, R. F. M.) A **59**, 765
 — (see van Kampen, H.) A **59**, 271
- Wójcik, A. and R. Parzyński** — Numerical versus analytical models of laser-induced population redistribution in Rydberg atoms. A **59**, 597
- Wolf, A., K. G. Bhushan, I. Ben-Itzhak, N. Altstein, D. Zajfman, O. Heber, and M. L. Rappaport** — Lifetime measurement of He^- using an electrostatic ion trap. A **59**, 267
 — (see Baer, A.) A **59**, 1865
 — (see Schippers, S.) A **59**, 3092(BR)
- Wolfrum, E.** — (see Smith, R.) A **59**, R47
- Wong, Kin** — (see Brockhaus, Peter) A **59**, 495
- Wood, C. J. and R. E. Olson** — Double electron removal and fragmentation model of the H_2 molecule by highly charged ions. A **59**, 1317
- Wood, R. M.** — (see Mangan, M. A.) A **59**, 358
- Wootters, William K.** — (see Bennett, Charles H.) A **59**, 1070
- Worthing, P. T., R. M. Amos, and W. L. Barnes** — Modification of the spontaneous emission rate of Eu^{3+} ions embedded within a dielectric layer above a silver mirror. A **59**, 865
- Wright, E. M.** — (see Zobay, O.) A **59**, 643
- Wright, J. S., G.A. DiLabio, D. R. Matusek, P. B. Corkum, M.Yu. Ivanov, Ch. Ellert, R. J. Buenker, A. B. Alekseyev, and G. Hirsch** — Dissociation of molecular chlorine in a Coulomb explosion: Potential curves, bound states, and deviation from Coulombic behavior for Cl_2^{n+} ($n=2,3,4,6,8,10$). A **59**, 4512
- Wu, Ying, K. W. Chan, M.-C. Chu, and P. T. Leung** — Radiation modes of a cavity with a resonantly oscillating boundary. A **59**, 1662
 — , M.-C. Chu, and P. T. Leung — Dynamics of the quantized radiation field in a cavity vibrating at the fundamental frequency. A **59**, 3032
- Wuilleumier, F. J.** — (see Zhou, H. L.) A **59**, 462
- Wunner, Günter** — (see Main, Jörg) A **59**, R2548
- Xenakis, D.** — (see Papastathopoulos, E.) A **59**, 4840(BR)
- Xi, Jinhua and Charlotte Froese Fischer** — Photodetachment cross section of He^- ($1s2s2p\ ^4P^o$) in the region of the 1s detachment threshold. A **59**, 307

- Xia, Hui, A. J. Merriam, S. J. Sharpe, G. Y. Yin, and S. E. Harris** — Electromagnetically induced transparency with spectator momenta. A 59, R3190
- Xiao, M.** — (see Brecha, R. J.) A 59, 2392
- Xingqi, Yu** — (see Kaige, Wang) A 59, 803
- Xu, G. and D. J. Heinzen** — State-selective Rabi and Ramsey magnetic resonance line shapes. A 59, R922
- Xu, Jinbo** — (see Gao, Xiao-Chun) A 59, 55
- Yabuzaki, T.** — (see Honda, K.) A 59, R934
 — (see Isayama, T.) A 59, 4836(BR)
 — (see Takahashi, Y.) A 59, 3761
- Yamada, Koji, Teruo Hosokawa, and Hisataka Takenaka** — Observation of soft x rays of single-mode resonant transition radiation from a multilayer target with a submicrometer period. A 59, 3673
- Yamamoto, Yoshihisa** — (see Benson, Oliver) A 59, 4756
 — (see Lathi, Seema) A 59, 819
 — (see Pelton, Matthew) A 59, 2418
- Yamane, K.** — (see Kitano, M.) A 59, 3710
- Yamashita, Makoto, Masato Koashi, and Nobuyuki Imoto** — Quantum kinetic theory for evaporative cooling of trapped atoms: Growth of Bose-Einstein condensate. A 59, 2243
- Yamazaki, Dai** — (see Hino, Masahiro) A 59, 2261
- Yamazaki, T.** — (see Torii, H. A.) A 59, 223
- Yan, Zijun** — Bose-Einstein condensation of a trapped gas in n dimensions. A 59, 4657
- Yan, Zong-Chao and Y. K. Ho** — Ground state and S-wave autodissociating resonant states of positronium hydride. A 59, 2697
 — (see Ho, Y. K.) A 59, R2559
- Yang, Chui-Ping and Guang-Can Guo** — Disentanglement-free state of two pairs of two-level atoms. A 59, 4217
- Yang, G. J., O. Zobay, and P. Meystre** — Two-atom dark states in electromagnetic cavities. A 59, 4012
- Yang, Guangcan, Jian-min Mao, and Mengli Du** — Photodetachment cross section of H^- in a gradient electric field. A 59, 2053
- Yang, L.** — (see Magnuson, M.) A 59, 4281
- Yasuda, Koji** — Direct determination of the quantum-mechanical density matrix: Parquet theory. A 59, 4133
- Yatsenko, L. P., T. Halfmann, B. W. Shore, and K. Bergmann** — Photoionization suppression by continuum coherence: Experiment and theory. A 59, 2926
- Yeazell, John A.** — (see Chen, Xin) A 59, 3782
- Yelin, Susanne F.** — (see Fleischhauer, Michael) A 59, 2427
- Yelkhovsky, Alexander** — (see Czarniecki, Andrzej) A 59, 4316
- Yiannopoulou, Alexandra, Gwang-Hi Jeung, Su Jin Park, Hyo Sug Lee, and Yoon Sup Lee** — Undulations of the potential-energy curves for highly excited electronic states in diatomic molecules related to the atomic orbital undulations. A 59, 1178
- Yin, G. Y.** — (see Xia, Hui) A 59, R3190
- Yin, Jianping, Yifu Zhu, and Yuzhu Wang** — Erratum: Evanescent light-wave atomic funnel: A tandem hollow-fiber, hollow-beam approach [Phys. Rev. A 57, 1957 (1998)]. A 59, 1717(E)
- Yip, S.-K. and Tin-Lun Ho** — Zero sound modes of dilute Fermi gases with arbitrary spin. A 59, 4653
- Yoran, Nadav** — (see Vaidman, Lev) A 59, 116
- Yoshida, S., C. O. Reinhold, P. Kristöfel, J. Burgdörfer, S. Watanabe, and F. B. Dunning** — Floquet analysis of the dynamical stabilization of the kicked hydrogen atom. A 59, R4121
 — (see Frey, M. T.) A 59, 1434
- You, L.** — (see Geist, W.) A 59, 1500
 — (see Marinescu, M.) A 59, 1936
 — (see Petrosyan, K. G.) A 59, 639
- Young, A. R.** — (see Appelt, S.) A 59, 2078
- Yu, Hengtai** — (see Bandrauk, André D.) A 59, 539
- Yuan, Jian-Min** — (see Duan, Yiwu) A 59, 238
- Yuan Ling, Hong** — Several asymptotic subrecoil laser-cooling behaviors in arbitrary degenerate Λ systems. A 59, 3714
- Zachorowski, Jerzy** — (see Pinard, Michel) A 59, 848
- Zagury, N.** — (see Solano, E.) A 59, R2539
- Zajfman, D.** — (see Baer, A.) A 59, 1865
 — (see Wolf, A.) A 59, 267
- Zakrzewski, Jakub** — (see Sacha, Krzysztof) A 59, 1707(BR)
- Zamastil, J.** — (see Skála, L.) A 59, 102
- Zamick, Larry** — (see Sharma, S. Shelly) A 59, 3138(C)
- Zatsarinny, O.** — (see Gedeon, V.) A 59, 2016
- Zbinden, H.** — (see Tittel, W.) A 59, 4150
- Zecca, Antonio** — (see Karwasz, Grzegorz P.) A 59, 1341
- Zeilinger, A.** — (see Horne, M.) A 59, 2190
- Zekou, E.** — (see Boon, J. R.) A 59, 4675
- Zeman, V.** — (see Bartschat, K.) A 59, R2552
- Zemmouri, J.** — (see Randoux, S.) A 59, 1644
- Zeng, Heping, Fucheng Lin, Yuzhu Wang, and Yusaburo Segawa** — Raman motional displacements of a trapped ion in the strong excitation regime. A 59, 4589
 — , Yuzhu Wang, and Yusaburo Segawa — Nonlinear Raman vibrational excitation of a trapped ion. A 59, 2174
- Zetner, P. W.** — (see Johnson, P. V.) A 59, 439
- Zhang, G. Z.** — (see Tokaryk, D. W.) A 59, 3116(BR)
- Zhang, Hong Lin** — (see Fontes, Christopher J.) A 59, 295
 — (see Fontes, Christopher J.) A 59, 1329
- Zhang, J.** — (see Smith, R.) A 59, R47
- Zhang, Weiping** — (see Corney, J. F.) A 59, 4630
 — (see Marzlin, Karl-Peter) A 59, 2982
- Zhang, Zhi-Ming, Zhi-Yuan Lu, and Lin-Sheng He** — Quantum theory of the two-photon mazer: Emission probability. A 59, 808
- Zhao, W. Z.** — (see Simsarian, J. E.) A 59, 195
- Zhao, Xin Miao** — (see Rislove, D. C.) A 59, 906(E)
- Zheng, Q.** — (see Mangan, M. A.) A 59, 358
- Zheng, Wei-Mou** — (see Shi, Hualin) A 59, 1562
- Zhou, H. L., S. T. Manson, L. Vo Ky, P. Faucher, F. Bely-Dubau, A. Hibbert, S. Diehl, D. Cubaynes, J.-M. Bizau, L. Journel, and F. J. Wuilleumier** — Inner-shell photoionization of excited lithium. A 59, 462
- Zhou, Peng and S. Swain** — Tunable two-mode and single-mode squeezing in resonance fluorescence, including phase-diffusion effects. A 59, 841
 — and S. Swain — Enhancement of squeezing in the resonance fluorescence of a laser-dressed atom with finite-bandwidth cavity-field excitation. A 59, 1603
 — and S. Swain — Optimal squeezing, pure states, and amplification of squeezing in resonance fluorescence. A 59, 3745
- Zhou, Zi-Fang** — (see Li, Shu-Min) A 59, 1697
- Zhu, Shi-Yao** — (see Li, Fu-li) A 59, 2330
- Zhu, Yifu, Shijun Wang, and Neil M. Mulchan** — Multilevel dark states in an inhomogeneously broadened open atomic system. A 59, 4005
 — (see Yin, Jianping) A 59, 1717(E)
- Zilio, S. C.** — (see Milori, D. M. B. P.) A 59, 3101(BR)
- Zitane, N.** — (see Bedouet, C.) A 59, 4399
- Zobay, O., S. Pötting, P. Meystre, and E. M. Wright** — Creation of gap solitons in Bose-Einstein condensates. A 59, 643
 — (see Alber, G.) A 59, R3174
 — (see Yang, G. J.) A 59, 4012
- Zoller, P.** — (see Cabrillo, C.) A 59, 1025
 — (see Dür, W.) A 59, 169
 — (see Giedke, G.) A 59, 2641
 — (see Morigi, G.) A 59, 3797
 — (see van Enk, S. J.) A 59, 2659
- Zolotarev, M.** — (see Rochester, S.) A 59, 3480
- Zou, Kubo** — (see Gao, Xiao-Chun) A 59, 55
- Zukowski, Marek and Dagomir Kaszlikowski** — Greenberger-Horne-Zeilinger paradoxes with symmetric multiport beam splitters. A 59, 3200
- Zweiback, J., T. Ditmire, and M. D. Perry** — Femtosecond time-resolved studies of the dynamics of noble-gas cluster explosions. A 59, R3166