Reviews of Modern Physics

CONTENTS FOR VOLUME 76

JANUARY 2004

	Author Guidelines	
1	**Origin of the matter-antimatter asymmetry**	Michael Dine, Alexander Kusenko
31	**Induced pseudoscalar coupling of the proton weak interaction**	Tim Gorringe, Harold W. Fearing
93	**Quantum information and relativity theory**	Asher Peres, Daniel R. Terno
125	**Control of star formation by supersonic turbulence**	Mordecai-Mark Mac Low, Ralf S. Klessen
195	***Colloquium*: The quest for high-conductance DNA**	R. G. Endres, D. L. Cox, R. R. P. Singh
215	**Structure and reactions of quantum halos**	A. S. Jensen, K. Riisager, D. V. Fedorov, E. Garrido
263	**Inhomogeneous superconductivity in condensed matter and QCD**	Roberto Casalbuoni, Giuseppe Nardulli
321	**Forthcoming articles**	

APRIL 2004

323	**Spintronics: Fundamentals and applications**	Igor Žutić, Jaroslav Fabian, S. Das Sarma
411	**The current-phase relation in Josephson junctions**	A. A. Golubov, M. Yu. Kupriyanov, E. Il'ichev
471	***Colloquium*: Experiments in vortex avalanches**	E. Altshuler, T. H. Johansen
489	**The electron cyclotron maser**	K. R. Chu
541	**The physics of discharge lamps**	G. G. Lister, J. E. Lawler, W. P. Lapatovich, V. A. Godyak
599	**Theory of the weakly interacting Bose gas**	Jens O. Andersen
641	**Forthcoming articles**	

JULY 2004, Part I

643	***Colloquium*: Exactly solvable Richardson-Gaudin models for many-body quantum systems**	J. Dukelsky, S. Pittel, G. Sierra
663	**Universality classes in nonequilibrium lattice systems**	Géza Ódor
725	**Structural properties of self-organized semiconductor nanostructures**	J. Stangl, V. Holý, G. Bauer
785	**Mode-coupling theory and the glass transition in supercooled liquids**	Shankar P. Das
853	**The plane-wave/super Yang-Mills duality**	Darius Sadri, M. M. Sheikh-Jabbari
909	***SO*(5) theory of antiferromagnetism and superconductivity**	Eugene Demler, Werner Hanke, Shou-Cheng Zhang
975	**Nobel Lecture: Type-II superconductors and the vortex lattice**	A. A. Abrikosov
981	**Nobel Lecture: On superconductivity and superfluidity (what I have and have not managed to do) as well as on the "physical minimum" at the beginning of the XXI century**	Vitaly L. Ginzburg
999	**Nobel Lecture: Superfluid ^{3}He: the early days as seen by a theorist**	Anthony J. Leggett
1013	**Forthcoming articles**	

July 2004, Part II

S1	**Report of the American Physical Society Study Group on Boost-Phase Intercept Systems for National Missile Defense: Sicentific and Technical Issues**	David K. Barton, Roger Falcone, Daniel Kleppner, Frederick K. Lamb, Ming K. Lau, Harvey L. Lynch, David Moncton, David Montague, David E. Mosher, William Priedhorsky, Maury Tigner, David R. Vaughan
S425	**Publisher's Note: Report of the American Physical Society Study Group on Boost-Phase Intercept Systems for National Missile Defense: Scientific and Technical Issues [Rev. Mod. Phys. 76, S1 (2004)]**	David K. Barton, Roger Falcone, Daniel Kleppner, Frederick K. Lamb, Ming K. Lau, Harvey L. Lynch, David Moncton, David Montague, David E. Mosher, William Priedhorsky, Maury Tigner, David R. Vaughan

October 2004

1015	***Colloquium*: Magnetohydrodynamic turbulence and time scales in astrophysical and space plasmas**	Ye Zhou W. H. Matthaeus, P. Dmitruk
1037	**NMR techniques for quantum control and computation**	L. M. K. Vandersypen, I. L. Chuang
1071	**Physics of magnetically confined plasmas**	Allen H. Boozer
1143	**The physics of gamma-ray bursts**	Tsvi Piran

1211	**Scaling laws in the distribution of galaxies**	Bernard J. T. Jones, Vicent J. Martínez, Enn Saar, Virginia Trimble
1267	**Decoherence, the measurement problem, and interpretations of quantum mechanics**	Maximillian Schlosshauer
1307	**Publisher's Note: Report of the American Physical Society Study Group on Boost-Phase Intercept Systems for National Missile Defense: Scientific and Technical Issues** [**Rev. Mod. Phys. 76, S1** (**2004**)]	David K. Barton, Roger Falcone, Daniel Kleppner, Frederick K. Lamb, Ming K. Lau, Harvey L. Lynch, David Moncton, David Montague, David E. Mosher, William Priedhorsky, Maury Tigner, David R. Vaughan