PHYSICAL REVIEW C **THIRD SERIES, VOLUME 62, NUMBER 1** **JULY 2000**

Collective structures and band termination in ^{107}Sb *(10 pages)* 014305
D. R. LaFosse, C. J. Chiara, D. B. Fossan, G. J. Lane, J. M. Sears, J. F. Smith, K. Starosta, A. J. Boston, E. S. Paul, A. T. Semple, M. Devlin, D. G. Sarantites, I. Y. Lee, A. O. Macchiavelli, A. V. Afanasjev, and I. Ragnarsson

Decay scheme and magnetic moment of a new isomeric state in ^{86}Y *(5 pages)* 014306
M. Ionescu-Bujor, A. Iordachescu, and D. Bucurescu

States in ^{92}Mo observed with the $(n,n'\gamma)$ reaction with spallation neutrons *(5 pages)* 014307
P. E. Garrett, L. A. Bernstein, J. A. Becker, K. Hauschild, C. A. McGrath, D. P. McNabb, W. Younes, E. Tavukcu, G. D. Johns, R. O. Nelson, W. S. Wilburn, and S. W. Yates

l-forbidden $M1$ transitions and pseudospin symmetry *(5 pages)* 014308
P. von Neumann-Cosel and J. N. Ginocchio

Search for the electric dipole excitations to the $3s_{1/2}\otimes[2_1^+\otimes 3_1^-]$ multiplet in ^{117}Sn *(12 pages)* 014309
J. Bryssinck, L. Govor, V. Yu. Ponomarev, F. Bauwens, O. Beck, D. Belic, P. von Brentano, D. De Frenne, C. Fransen, R.-D. Herzberg, E. Jacobs, U. Kneissl, H. Maser, A. Nord, N. Pietralla, H. H. Pitz, and V. Werner

Point symmetries in the Hartree-Fock approach. I. Densities, shapes, and currents *(13 pages)* 014310
J. Dobaczewski, J. Dudek, S. G. Rohoziński, and T. R. Werner

Point symmetries in the Hartree-Fock approach. II. Symmetry-breaking schemes *(10 pages)* 014311
J. Dobaczewski, J. Dudek, S. G. Rohoziński, and T. R. Werner

Nuclear structure of ^{5}H in a three-body $^3\mathrm{H}+n+n$ model *(4 pages)* 014312
N. B. Shul'gina, B. V. Danilin, L. V. Grigorenko, M. V. Zhukov, and J. M. Bang

Very high rotational frequencies and band termination in ^{73}Br *(6 pages)* 014313
C. Plettner, H. Schnare, R. Schwengner, L. Käubler, F. Dönau, I. Ragnarsson, A. V. Afanasjev, A. Algora, G. de Angelis, A. Gadea, D. R. Napoli, J. Eberth, T. Steinhardt, O. Thelen, M. Hausmann, A. Müller, A. Jungclaus, K. P. Lieb, D. G. Jenkins, R. Wadsworth, A. N. Wilson, and S. Frauendorf

Coincidence recoil-distance Doppler-shift lifetime measurements in ^{128}Ba *(18 pages)* 014314
P. Petkov, A. Dewald, R. Kühn, R. Peusquens, D. Tonev, S. Kasemann, K. O. Zell, P. von Brentano, D. Bazzacco, C. Rossi-Alvarez, G. de Angelis, S. Lunardi, P. Pavan, and D. R. Napoli

Nucleon pair approximation of the nuclear collective motion *(10 pages)* 014315
Y. M. Zhao, S. Yamaji, N. Yoshinaga, and A. Arima

Validity of the *SD*-pair truncation of the shell model *(9 pages)* 014316
Y. M. Zhao, N. Yoshinaga, S. Yamaji, and A. Arima

Nuclear Reactions

Near-barrier fusion of $^{36}\mathrm{S}+^{90,96}$Zr: The effect of the strong octupole vibration of ^{96}Zr *(7 pages)* 014601
A. M. Stefanini, L. Corradi, A. M. Vinodkumar, Yang Feng, F. Scarlassara, G. Montagnoli, S. Beghini, and M. Bisogno

Fusion of deformed nuclei in the reactions of $^{76}\mathrm{Ge}+^{150}\mathrm{Nd}$ and $^{28}\mathrm{Si}+^{198}\mathrm{Pt}$ at the Coulomb barrier region *(12 pages)* 014602
K. Nishio, H. Ikezoe, S. Mitsuoka, and J. Lu

Role of ^{28}Si excitations in the sub-barrier fusion of $^{28}\mathrm{Si}+^{120}$Sn *(7 pages)* 014603
Lagy T. Baby, Vandana Tripathi, J. J. Das, P. Sugathan, N. Madhavan, A. K. Sinha, M. C. Radhakrishna, P. V. Madhusudhana Rao, S. K. Hui, and K. Hagino

Dynamical model for pion-nucleon bremsstrahlung *(9 pages)* 014604
A. Mariano and G. López Castro

Photoproduction of mesons in nuclei at GeV energies *(13 pages)* 014605
M. Effenberger and U. Mosel

Isospin dependence of nucleon-nucleon elastic cross section *(8 pages)* 014606
Qingfeng Li, Zhuxia Li, and Guangjun Mao

(Continued)