Selected Abstracts from Physical Review D

Abstracts of papers published in **Physical Review D** *which may be of interest to our readers are printed here.*

Measurement of a mixed spin-spin correlation parameter for *np* elastic scattering. R. Garnett* and M. Rawool†, *Argonne National Laboratory, Argonne, Illinois 60439 and New Mexico State University, Las Cruces, New Mexico 88003;* V. Carlson,‡ D. Hill, K. F. Johnson,‡ D. Lopiano, Y. Ohashi, T. Shima, H. Spinka, R. Stanek, D. Underwood, and A. Yokosawa, *Argonne National Laboratory, Argonne, Illinois 60439;* M. Beddo, G. Burleson, J. A. Faucett,‡ and G. Kyle, *New Mexico State University, Las Cruces, New Mexico 88003;* H. Shimizu, *Tokyo Institute of Technology, Okayama Meguro, Tokyo 152, Japan;* G. Glass, S. Nath, and L. C. Northcliffe, *Texas A&M University, College Station, Texas 77843;* J. J. Jarmer, *Los Alamos National Laboratory, Los Alamos, New Mexico 87545;* R. H. Jeppesen, *University of Montana, Missoula, Montana 59801;* G. E. Tripard, *Washington State University, Pullman, Washington 99164.* (Received 27 April 1989)

The mixed spin-spin correlation parameter $C_{\sigma\sigma} \approx 0.5C_{SS} - 0.8C_{SL}$ for *np* elastic scattering was measured for incident-neutron-beam kinetic energies of 484, 634, and 788 MeV over the center-of-mass angular range 75°–180°. These $C_{\sigma\sigma}$ data are important for determining the $I=0$ nucleon-nucleon amplitudes and provide strong constraints on the phase-shift solutions. It was found that the $^1P_1$, $^3S_1$, and $^3D_1$ isospin-0 partial waves are most strongly affected. [Phys. Rev. D **40**, 1708 (1989)]

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