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_____ **, Joseph H. Macek, and D. H. Madison** — Publisher's Note: Test of the Pluvinage wave function for the helium ground state [Phys. Rev. A **70**, 012712 (2004)]. A **70,** 029902(E)
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_____ **, Rajesh Srivastava, and Shinobu Nakazaki** — Publisher's Note: Electron-impact excitation of the $3s3p\ ^1P^o$ state of Mg-like ions: S^{4+}, Ar^{6+}, and Ca^{8+} [Phys. Rev. A **70**, 062705 (2004)]. A **70,** 069903(E)
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_____ **, J. Wang, R. dela Torre, V. Leung, B. Klöter, D. Meschede, T. Varzhapetyan, and D. Sarkisyan** — Publisher's Note: One- and two-color laser spectroscopy of indium vapor in an all-sapphire cell [Phys. Rev. A **70**, 033810 (2004)]. A **70,** 049901(E)
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_____ **, Yu-xi Liu, and Franco Nori** — Publisher's Note: Engineering quantum pure states of a trapped cold ion beyond the Lamb-Dicke limit [Phys. Rev. A **70**, 063801 (2004)]. A **70,** 069904(E)
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Zubarev, Alexander L. — (see Kim, Yeong E.) A **70,** 033612
Żukowski, M. — (see Gosal, Darwin) A **70,** 042106
Zuo, Zhanchun — (see Sun, Jiang) A **70,** 053820
Zurlo, N. — (see Bianconi, A.) A **70,** 032501
Zygelman, B. — (see Froelich, P.) A **70,** 022509