Abstract Submitted
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**Electron-impact ionization of molecular hydrogen at 38 eV incident energy** JAMES COLGAN, Los Alamos National Laboratory, XUEGUANG REN, ALEXANDER DORN, Max-Planck-Institute for Nuclear Physics, 69117 Heidelberg, Germany, M. S. PINDZOLA, Auburn University — We report on recent measurements of the triple differential cross sections from electron-impact ionization of molecular hydrogen at an incident energy of 38 eV. Results are reported for various orientations of the target molecule, as well as various scattering angles and energy sharings of the outgoing electrons. The measurements are compared with calculations performed using a time-dependent close-coupling approach. Reasonable agreement is found between theory and measurement. We also compare and contrast our results to those obtained at higher incident electron energies [1], which were reported recently. [1] X. Ren, T. Pflüger, S. Xu, J. Colgan, M. S. Pindzola, J. Ullrich, and A. Dorn, Phys. Rev. Letts. **109**, 123202 (2012).

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