

Abstract Submitted
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Observation of channel phase lag in asymmetric photoelectron angular distributions in the vicinity of autoionizing resonances¹ REKISHU YAMAZAKI, D.S. ELLIOTT, Purdue University — We report the results of channel phase lag measurements in the photoionization of atomic barium. We ionize the $6s6p\ ^1P_1$ excited state via a coherent laser field consisting of two frequencies, ω and 2ω , to excite the atom to an autoionizing resonance in the series converging on the $5d_{5/2}$ threshold. We present the channel phase lag observed for the asymmetric angular distribution for different ionization product states at different locations of the autoionizing resonances.

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