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Measurement of disorientation cross section in the ^{133}Cs $6p^2P_{3/2}$ level by circular polarization spectra¹ BURCIN BAYRAM, RAMESH MARHATTA, MATTHEW BRIEL, PRAKASH KOIRALA, Miami University — A measurement of the circular polarization degree of the $6s^2S_{1/2} \rightarrow 6p^2P_{3/2} \rightarrow 10s^2S_{1/2}$ transition in atomic ^{133}Cs has been made. The spectra is dependent on both alignment and orientation created by a circularly polarized light in the $6p^2P_{3/2}$ level of cesium. The cross section for disorientation of optically oriented $6p^2P_{3/2}$ cesium atoms, induced in collisions with argon noble gases have been extracted from the two-photon double-resonance circular polarization spectra. Experimental details and the results will be presented.

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Burcin Bayram
bayramsb@muohio.edu
Miami University

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