

Abstract Submitted
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Non-Dipole Effects in Spin Polarization of Photoelectrons from $3d$ Subshells of Xe, Cs and Ba¹ N.A. CHEREPKOV, State University of Aerospace Instrumentation, Russia, M. YA. AMUSIA, The Hebrew University, Israel, L.V. CHERNYSHEVA, A. F. Ioffe Physical-Technical Institute, Russia, Z. FELFLI, A.Z. MSEZANE, Clark Atlanta University — The non-dipole contribution to spin polarization of photoelectrons from Xe, Cs and Ba $3d_{5/2}$ and $3d_{3/2}$ levels is calculated. The calculation is carried out within the framework of a modified version of the Spin-Polarized Random Phase Approximation with Exchange. The effects of relaxation of excited electrons due to the $3d$ -vacancy creation are also accounted for. It is demonstrated that the parameters that characterize the photoelectron angular distribution as functions of the incoming photon energy, although being predictably small, acquire additional peculiarities when the interaction between electrons that belong to the $3d_{5/2}$ and $3d_{3/2}$ components of the spin-orbit doublet is taken into account.

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