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Circularly polarized laser assisted photoionization spectra ZENGXIU ZHAO, ZENGHU CHANG, XIAOMIN TONG, CHII-DONG LIN, Kansas State University — Angle-resolved photoelectron spectra of argon atoms by XUV attosecond pulses in the presence of a circularly polarized laser field are calculated to examine their dependence on the duration and the chirp of the attosecond pulses. From the calculated electron spectra, we show how to retrieve the duration and the chirp of the attosecond pulse using genetic algorithm. The method is expected to be used for characterizing the attosecond pulses which are produced by polarization gating of few-cycle left- and right-circularly polarized infrared laser pulses.

Zengxiu Zhao
Kansas State University

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