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Wave packet interferometry on extreme timescales with coherent VUV and XUV FEL pulses

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Electron wave packet interferometry provides the full motion picture of non-stationary states, their relative amplitudes and phases and dominant relaxation pathways. The demonstrated sensitivity to phase changes on the few-attosecond time scale makes this method a powerful tool to probe even weak electronic perturbations and couplings, respectively. In this contribution I will present first results obtained for small quantum systems studied at FLASH.

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