

Quantum Dynamics in Tailored Intense Fields

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Twists and turns, ups and downs of a walk through chiral photoionization

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The study of photoelectron circular dichroism (PECD) per se offers unique insights into fundamental molecular photoionization dynamics spanning the full range of physical conditions. Equally, PECD has unique capabilities as a technique for studying structure, interactions, and by extension chemical and biological properties in chiral molecular systems. Due to homochirality these are topics of ever increasing interest. But while some such applications may be developed in an empirical manner, eg by calibrating against known standards, it will be shown that fully and securely exploiting the sensitivity of PECD to molecular structure, will continue to place demands on understanding and modelling the fundamental physics that underpin PECD phenomena.

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