

HHG IN LIQUID CRYSTALS, A CLOSE LOOK TO PARTIAL ORDERED SYSTEMS

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Liquid crystals (LCs), intermediate between solids and liquids, offer tunable molecular order for studying light-matter interactions. Beyond display technology, LCs enable exploration of order-dependent electron and nuclear dynamics. We use high harmonic generation (HHG) to study, for the first time, order-sensitive dynamics in LCs. The HHG yield is strongly dependent on mesophase structure and driving field polarization. I will further discuss our early insights and challenges in this emerging field.

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