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Controlling High-order Harmonic Generation in Solids¹

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The observation of high-order harmonic generation from bulk ZnO crystals in 2011 opened a new playground for strong-field physics. Since this first observation, experiments and calculations have shown that the structure and morphology of solids, as well as the properties of the driving laser field, play a critical role in determining the features of the high-order harmonic spectrum. In this talk, I will present recent results of high-order harmonic generation from different solid-state media, which demonstrate the important roles played by crystalline order and symmetry in addition to the laser pulse parameters.

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