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**Topological effects in high-harmonic generation by planar sheets**

HELENA DRUEEKE, University of Rostock, Germany, DIETER BAUER, University of Rostock — Previous studies [1,2] have found interesting topological effects in the high-harmonic generation (HHG) spectra of finite, one-dimensional, periodic structures. This research expands upon these results by investigating a two-dimensional system with topological edge states. Calculations were performed with a self-consistent time-dependent density functional theory (TDDFT) approach. [1] Dieter Bauer and Kenneth K. Hansen, *High-harmonic generation in solids with and without topological edge states*, Phys. Rev. Lett. 120, 177401 (2018) [2] Helena Drüeke and Dieter Bauer, *Robustness of topologically sensitive harmonic generation in laser-driven linear chains*, arXiv:1901.01437

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