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High-order Harmonic Generation in Graphene Under Local Ultrahigh Pressure

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Here, we extend the study of high-order harmonic generation in graphene, simulating through DFT methods its electronic structure when the crystalline material is brought in extreme conditions, namely when is exposed to local ultrahigh pressure. By solving the time-dependent Schrödinger equation in the density matrix formalism, we have access to the current in the time-domain and a Fourier transform give us the high-harmonic spectrum coming from distorted bands.

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