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Photo-induced Ultrafast Electron Emission and Photonic Bandgap Engineering in Phosphorene

Monday 1 July 2019 18:00 (2 hours)

We show how the ultrafast photo-induced electron emission processes can reach the order of femtosecond timescale by suitable application of external ultrafast laser. Resulting evolution of the charge densities and emission currents are discussed. Our analysis is general and holds true for other class of two-dimensional materials as well.

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