

ULTRAFAST ELECTRON KINETICS IN GRAPHENE

ANDREAS KNORR

Technische Universität Berlin

Graphene is an ideal material to study new processes in the ultrafast carrier kinetics of a two-dimensional system: Its linear energy dispersion and the vanishing bandgap allow new and surprising electron scattering processes, suppressed in conventional semiconductors: A typical, fascinating example is a process which generates two optically excited electrons out of one photon.

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