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Ultrafast Exciton Buildup in Monolayer MoS₂

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We study the ultrafast relaxation of excited carriers into the lowest lying excitonic state of monolayer MoS₂ after excitation with ≈ 20 fs laser pulses with different carrier frequencies using a density-matrix-formalism including many-body effects and electron-phonon scattering from ab-initio calculations.

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