Dephasing in InAs/GaAs quantum dots - DTU Orbit (30/11/2018)

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The room-temperature dephasing in InAs/GaAs self-assembled quantum dots is measured using two independent methods: spectral-hole burning and four-wave mixing. Dephasing times weakly dependent on the excitation density are found, with a low density value of 290+/−80 fs from spectral-hole burning and of 260+/−20 fs from four-wave mixing.

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