

TIME DOMAIN THz SPECTROSCOPY OF INTRACOMPLEX RYDBERG-RYDBERG TRANSITIONS IN CaF

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Exceptionally large transition dipole moments among Rydberg states lend themselves to simplifying the analysis of the strongly mixed regions. We used the Stark effect in a double resonance experiment and are developing a Time Domain THz Spectrometer for a three photon experiment, to benefit from this property. Progress in the experiments, as well as predicted spectra, will be presented.