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Coherent Raman spectroscopy of laser driven shocks CYNTHIA BOLME, SHAWN MCGRANE, NHAN DANG, DAVID MOORE, Los Alamos Natl Lab — We have previously performed infrared absorption and broadband visible absorption spectroscopy during shock loading of chemically reactive materials, including thin films of polyvinyl nitrate. While absorption spectroscopy has enabled us to infer the kinetics of chemical initiation, we desire a more conclusive diagnostic of the mechanisms and species involved. Towards this aim, we have been investigating various types of coherent Raman spectroscopies for use on ultrafast laser driven shocked materials. Recent results will be presented.

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