

Abstract Submitted
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Warm dense matter study at Matter in Extreme Conditions (MEC) Instrument with LCLS in SLAC ERIC GALTIER, HAE JA LEE, BOB NAGLER, SLAC — The Matter in Extreme Conditions (MEC) instrument is being designed to study warm dense matter and high energy density matter. The lack of an appropriate x-ray light source has led to a paucity of robust techniques to create and probe high energy density matter. With the very recent advent of a high peak brightness x-ray source, the LCLS, MEC instrument can deliver the capability of studying phenomena of solid material under extreme conditions. We will describe the LCLS Materials under MEC instrument as well as the warm dense matter experimental program at LCLS.

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