

Abstract Submitted
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Next Generation Instrumentation: LAMP – LCLS - ASG - Michigan - Project for Novel Science with the LCLS FEL¹ T. OSIPOV, WMU, D. ROLLES, ASG, C. BOSTEDT, J-C CASTAGNA, SLAC-LCLS, R. HARTMANN, ASG, J.D. BOZEK, SLAC-LCLS, I. SCHLICHTING, L. STRÜDER, J. ULLRICH, ASG, N. BERRAH, WMU — We are designing and building the next generation multi-purpose instrumentation especially adapted to accommodate unique large-area, single-photon counting pnCCD detectors together with advanced many-particle ion and electron imaging spectrometers (reaction microscope, REMI; velocity map imaging, VMI; magnetic bottle) for simultaneous detection of scattered and fluorescent photons and charged particles in experiments at the LCLS FEL. The new end-station presents improvements to the existing CAMP [1] instrument, such as extended range and flexibility of detector positioning and control, better vacuum level, more convenient sample changing procedure, better temperature control, more versatility with pump-probe laser in- and out-coupling, etc. The instrument will be available to any scientist and is planned to be commissioned in the second half of 2012.

[1] L. Strüder et al., Nucl. Instr. Meth. Phys. Res. A **614**, **483**(2010)

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