COMPRES Facility Update: Beamline 12.2.2 at the Advanced Light Source

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Beamline 12.2.2 at the Advanced Light Source is an extreme conditions beamline dedicated to supporting high pressure diffraction experiments, in addition to other *in situ* techniques. Over the last year, the staff at 12.2.2 have commissioned new experiments, updated existing facilities and explored upgrade paths to keep serving the needs of the user community. Many of the beamline's core experiments have been augmented with new equipment or upgrades to existing systems. The compact laser heating and pyrometry system that was designed and successfully implemented at 12.2.2 has been described recently[i]; the addition of a π Shaper will give users even more options when laser heating. The radial diffraction addition for laser heating system has been commissioned and is now considered a user facility. The finishing touches have been put on the single crystal diffraction endstation, and we invite beamtime proposals during the fall allocation period. These experimental improvements, and others, will be discussed further, along with beamline and facility upgrades.

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[i] Martin Kunz et al, Rev Sci Instrum, 2018