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A second life for NSLS1 beamlines: CMS, a new beamline from refurbished NSLS1 components

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Complex Material Scattering (CMS) beamline, one of two first beamlines from BDN portfolio (Beamlines Developed by NSLS2, former NextGen), has seen its first light on Aug, 26 2016. CMS beamline will be dedicated to studies of the bulk and interfacial structures of complex materials on multiple length scales ranging from Angstroms to submicrons, such as molecular size and distribution, ordering, and domain sizes. CMS beamline is developed in partnership with Center of Functional Nanomaterials (CFN) at NSLS2. Monochromator, focusing mirror, KB micro-focusing mirror, sample chamber, detectors, and other components from NSLS1 were reused in CMS beamline on 11BM. Control's efforts, challenges and wins of making it ready to see X-rays in 6 month will be discussed.

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