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The Design and Performance of U7B Beamline and X-ray Diffraction and Scattering Station at NSRL

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This post describes the design and performance of U7B beamline and X-ray Diffraction and Diffuse Scattering Station at National Synchrotron Radiation Laboratory (NSRL). The beamline optics comprise a Pt-coated toroidal focusing mirror and a double-crystal Si(111) monochromator. A preliminary experiment of diffraction data collection and processing was carried out using a Huber 6-circle diffractometer and Marccd165 with MarDTB for both material science protein crystal samples from our users. Some typical examples are demonstrated.