

CHES-U: New beamlines, new opportunities at Cornell High Energy Synchrotron Source

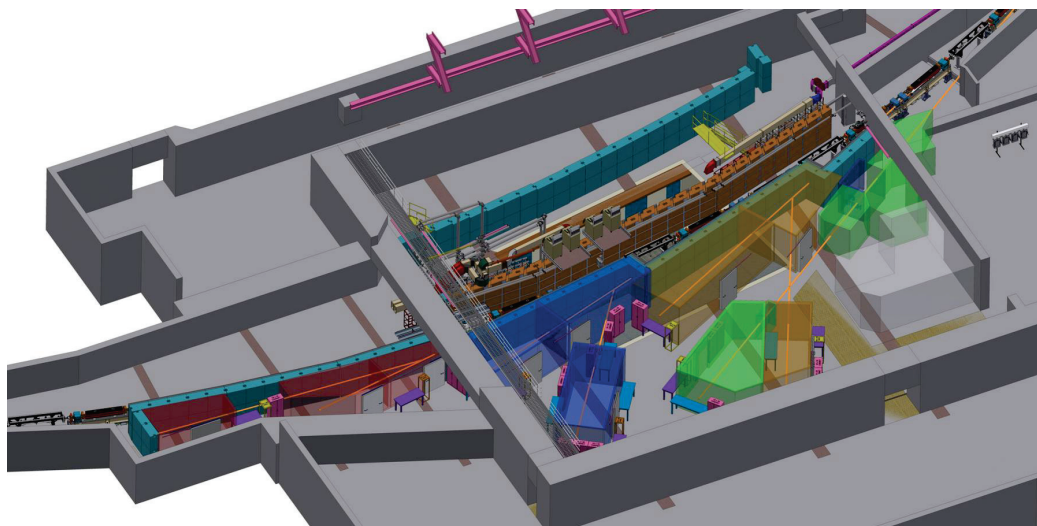
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The Cornell High Energy Synchrotron Source has just completed a major upgrade, transforming itself into a world-class high-flux, high energy 3rd generation source with state-of-the-art undulators. The staff is commissioning 10 stations, of which 5 are entirely new and the others are heavily renovated. The facility will include:

- a flexible MX station, supporting both standard and serial macromolecular crystallography, as well as applications of high pressure to crystallography
- a highly capable BioSAXS station, including support for high-pressure and time-resolved experiments
- an X-ray spectroscopy station (PIPOXS)
- a station for studying manufacturing processes, including additive manufacturing (FAST)
- a station for studying quantum materials, using total X-ray scattering (QM2)
- a pair of stations supported by the Air Force Research Lab, for study of hard and soft materials
- a few stations yet to be allocated – seeking sponsors!



Schematic of new beamlines at CHES