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NorthEastern Collaborative Access Team (NE-CAT) Beam Lines at the Advanced Photon Source.

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Northeastern Collaborative Access Team (NE-CAT) is a consortium of scientists organized to develop a structural biology sector at the Advanced Photon Source (APS). At the present time there is one operational beamline and another in commissioning mode. The operational beamline, 8BM, was declared open to APS General Users in Oct. 2004. It comes off of an APS bend magnet covering an energy range from 6.5 – 13.5 keV.

The second beamline that is in commissioning mode is the first of the NE-CAT undulator beamlines. Initial data sets have already been taken on test crystals and further commissioning is scheduled in the near future. The source is a novel undulator configuration consisting of two undulators in one straight section. These two undulators will serve as a source for three beamlines. The next insertion device beamline, that will use the other undulator, is due for completion early next year. This facility will be used to focus on NE-CAT research focusing on structural studies involving technically challenging crystallographic projects

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