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Bragg Coherent Diffraction Imaging and Ptychography at the Diamond Light Source i13-1 beamline

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The Diamond Light Source is an X-ray synchrotron light source in the United Kingdom with over 30 beamlines. The beamline i13-1 is an imaging beamline that takes advantage of the coherence of the coherent X-ray beam produced. Bragg coherent diffraction imaging (BCDI) and Ptychography are the main techniques available at i13-1 which has an experimental station that is 220 m from the undulator source. Here, we will describe the main aspects of the techniques available at the beamline and showcase some of the results that have been obtained by users. The results will include BCDI on perovskite materials and ptychographic tomography on pollen particles and a brain phantom.

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