



Contribution ID: 191

Type: **not specified**

Ptychography and CDI at the Diamond i13-1 beamline: Highlights

X-ray computed tomography has proven to be a very useful technique with applications in materials science on carbon fibre composites, lithium-ion battery research, in palaeontology and geology among others. The resolution attainable is limited by lenses and the detectors. However, ptychography is a lens less technique which can be used to obtain nanometre resolution and allows quantification of the phase. We present the setup of the i13-1 beamline of the Diamond Light Source for ptychography and Bragg coherent diffraction imaging (BCDI). We also present results obtained in the study of a titanium alloy part fabricated using metal injection moulding.

Primary author: Dr JAKATA, Kudakwashe (European Synchrotron)

Presenter: Dr JAKATA, Kudakwashe (European Synchrotron)

Session Classification: Plenary

Track Classification: AfLS