

**Three-dimensional Reconstruction of
AuCore@FeShell
Particle by Coherent Diffraction Imaging**

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Coherent diffraction imaging (CDI) has been widely used to reveal the morphology and inner-structure of amorphous and non-crystalline sample in the past two decades. Taiwan Photon Source (TPS) provides us brighter and more collimated light to acquire superior data. In this poster, we demonstrate the three-dimensional reconstructed image of AuFe particle from CDI with the 25A beamline in TPS and our robust algorithm. The result shows a novel progress in X-ray microscopy in Taiwan.