Contribution ID: **17** Type: **not specified**

High-energy Full-Field Imaging at EMBL-Hamburg

Tuesday 23 June 2020 13:30 (20 minutes)

Exploiting the high brigthness of PETRA III, we have been successfully using the 'untouched' beam from an U32 undulator for the homogeneous illumination of crystal mounts for detecting individual crystals (Polikarpov et al. (2019) Acta Cryst. D75:947).

Recently, we have expanded the imaging experiments to various small organisms, in particular platynereis dumerilii. Using technologies in place for high-throughput crystallography, full 3D tomograms of such samples can be recorded in less than 5 minutes, opening exciting perspectives for large-scale studies.

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