



Contribution ID: 36

Type: **Poster**

Swedish Materials Science Beamline (SMS) at PETRA III: In-line branch (P21.2)

Thursday 19 January 2023 18:35 (7 minutes)

The Swedish Materials Science beamline (SMS) at PETRA III is dedicated to the exploitation of high energy synchrotron radiation (40-150 keV) for materials science applications, the key features of high energy X-rays being penetration power and compression of reciprocal space onto area detectors. The in-line branch (P21.2) has been designed for the investigation of both bulk materials and surfaces by a combination of complementary contrast mechanisms (WAXS, SAXS, Imaging) and variable beam sizes from micro- to millimeters. Typical scientific areas include mechanical properties of engineering materials, electro-chemistry, and catalysis. The pertinent beamline instrumentation is described and performance parameters are presented.

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Session Classification: Poster Session

Track Classification: Applied materials and industrial applications