

Bruker / MIT Symposium 2026

THE NOBLE EDGE: HOW SILVER REDEFINES X RAY PERFORMANCE

Michael Ruf, Bruker AXS.; e-mail: michael.ruf@bruker.com

This presentation explores how silver radiation delivers a new level of clarity and precision in X ray crystallography. Silver provides higher resolution, greater penetration, lower absorption, and significantly reduced radiation damage, making it exceptionally effective for small-molecule studies, solid-state materials, quantum chemistry, pair distribution function analysis, and even absolute configuration work (?)

The session introduces the latest silver optimized instrumentation, including high brightness microfocus sources and advanced detectors designed to capture silver photons with exceptional efficiency. Real examples from solid-state chemistry and high-pressure experiments illustrate faster data collection, superior completeness, and cleaner refinement outcomes. Silver emerges as a truly noble choice, raising laboratory performance into a new realm of structural capability.