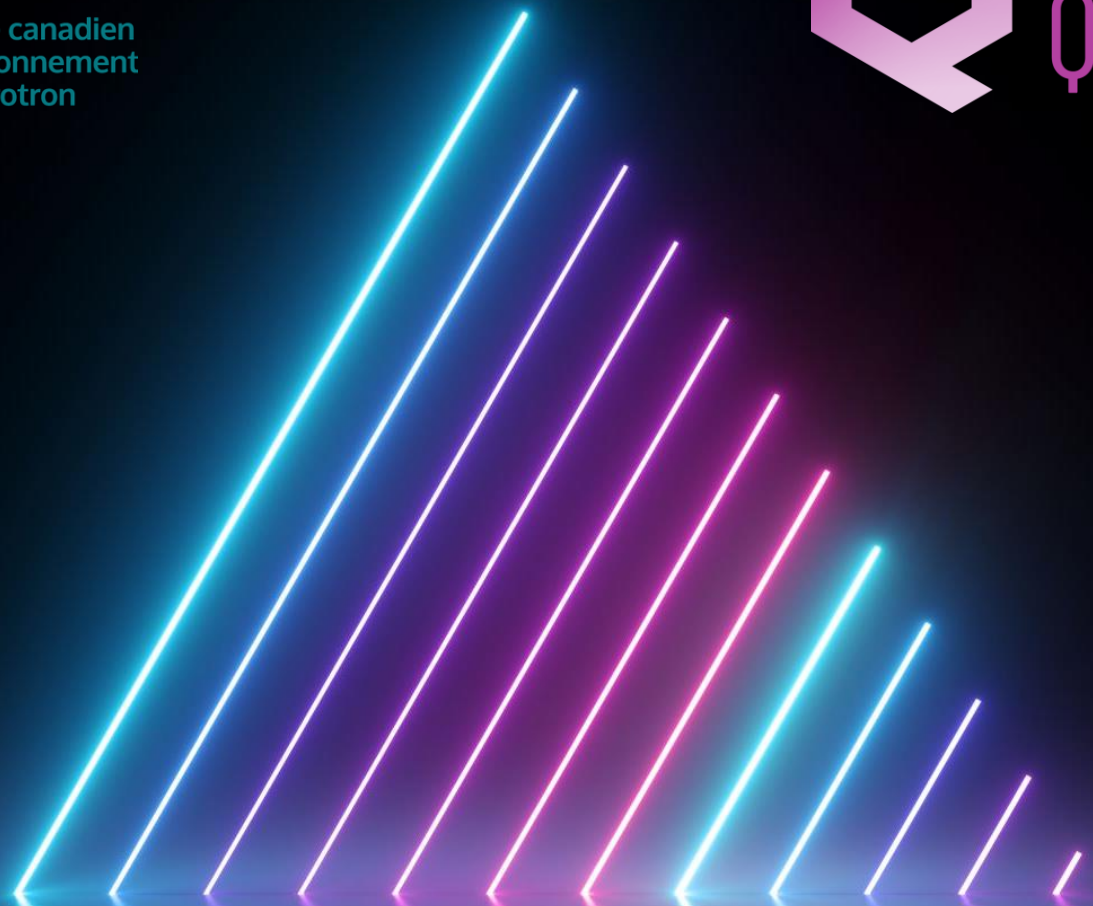
X-RAY ABSORPTION SPECTROSCOPY WORKSHOP

Canadian Light Source | Centre canadien de rayonnement synchrotron

QCAM CQMF



March 18, 2024
9am-12 pm

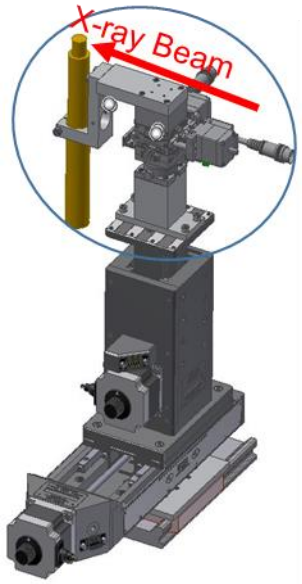
Concordia University, downtown campus
Henry F. Hall Building,
Room H605

Speaker
Ning Chen

Ning is a senior staff scientist and the designated beamline responsible for the Hard X-Ray MicroAnalysis beamline at Canadian Light Source.

Click here to register – registration is mandatory

AGENDA



As one of the most extensively applied synchrotron techniques, X-ray absorption spectroscopy (XAS) plays its unique role in the research of Materials Science. Its Nano to sub Nano scale element specific local structure probing capability has a resolution of ~0.02Å, making a molecular level understanding possible for both crystalline and amorphous systems. Aiming to bridge XAS to your research, this workshop will focus on XAS case study at the contexts of its unique resolution & capabilities and its various application in research

- Introduction:
  - CLS, HXMA, and principle of XAFS;
  - What XAFS can do;
  - XAFS roadmap at HXMA and a XAFS roadmap guided case study upon FeSAC-ncnt;
- Unique sensitivity of XAFS in scale of 0.02 Å - study cases
- Sub Nano to Nano scale XAFS characterization - study cases