

Contribution ID: 725

Type: Invited talk

Overview of the Mogno Beamline: Commissioning, Early Scientific Outcomes and Future Installations

Thursday 29 August 2024 12:15 (15 minutes)

Mogno, the micro and nanotomography X-ray beamline at Sirius, was designed to operate in zoom tomography mode, high-throughput, and for in situ experiments. With a nano-focus source, Mogno promises unprecedented resolution for nanostructural analysis at a high-energy beamline, reaching up to 150 nm with energy levels of 22, 39, and 67 keV. Currently partially open to users, the nano-station is attracting researchers from around the world, while the micro-station installation is underway. Mogno's scientific potential spans diverse fields, including groundwater studies, soil characterization, biomaterial research, and fossil examination. As a forthcoming installation, a HPHT (high pressure, high temperature) environmental cell will be available for studying rocks under Brazilian reservoir conditions, a capacity unprecedented in any other beamline and which has the ability to collaborate on very important topics, such as CO2 storage in depleted reservoirs.

I plan to submit also conference proceedings

No

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Session Classification: Mikrosymposium 11/3: SR facilites: Updates and New Facilities

Track Classification: 11. Synchrotron radiation facilities: Facility updates and new facilities