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Research opportunities at SOLARIS synchrotron

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SOLARIS, located in Krakow, is a third-generation synchrotron facility and the only one in Central-Eastern Europe [1]. Since its first light in 2016 and the start of user operations in 2018, it has steadily expanded its infrastructure to support a wide range of scientific applications. Currently, researchers have access to seven beamlines and two cryo-electron microscopes, enabling techniques such as ARPES, XAS, PEEM, STXM, and infrared imaging at micro- and nanoscale resolutions. These tools support investigations in materials science, chemistry, biology, and physics.

Future developments include three new beamlines—ARYA, SMAUG, and MAVKA—focused on macromolecular structure and nanoscale chemical analysis, as well as new experimental stations (NAP-XPS and OPERANDO) for advanced spectroscopy.

This presentation will provide an overview of the SOLARIS facility, highlight its current and upcoming capabilities, and showcase selected research achievements by its user community.

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References

1. J. Szlachetko et. al, Eur. Phys. J. Plus, 138 (2023) 10

Type of presence

Presence online

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