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Multilayer based soft-x-ray polarimeter at SOLARIS National Synchrotron Radiation Centre

Tuesday 16 September 2025 17:00 (1 hour)

The main goal of the project is to design and manufacture a multilayer soft-x-ray polarimeter. It will give us the opportunity to compare theoretical polarization with actual polarization, which will make it possible to adjust the synchrotron beam to optimal parameters. The device will be inserted very precisely before the end station of the beam line and will work in ultra-high vacuum environment. The polarimeter will be small, universal and mobile. It will be possible to move it and connect it to lines that require it. Additionally, there will be a sample storage inside the device, which will enable to change polarizers and analyzers without breaking the vacuum, which will make beam analysis much easier. The polarimeter, analyzer and detector will change angles inside the device, which will enable research.

Footnotes

Funding Agency

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