

Current status of Chemical Infrared Imaging (CIRI / SOLAIR) beamline in Solaris

Tuesday, 5 July 2022 17:55 (20)

The Chemical Infrared Imaging (CIRI) /Solaris Advanced InfraRed beamline (SOLAIR) is currently under construction. The large radiation extraction from a bending magnet will allow to collect a very wide wavelength range (0.4 - 500 μm), covering the near (NIR),_mid (MIR) and the far (FIR) infrared spectral range. The extraction of infrared range of synchrotron radiation will be achieved using a flat and slotted mirror (M1), which will be located inside the dipole chamber located at the bending magnet in the storage ring.

The presentation will showcase the current status of the project along with the expected IR beam parameters. It will also highlight microscopic techniques (FT-IR, s-SNOM and PTIR) planned to be used at the beamline with potential applications.

Primary author(s) : WRÓBEL, Tomasz (Solaris National Synchrotron Radiation Centre, Jagiellonian University, Czerwone Maki 98, 30-392 Krakow, Poland); LIBERDA, Danuta (Solaris National Synchrotron Radiation Centre, Jagiellonian University, Czerwone Maki 98, 30-392 Krakow, Poland); KOZIOŁ, Paulina (Solaris National Synchrotron Radiation Centre, Jagiellonian University, Czerwone Maki 98, 30-392 Krakow, Poland); KOSOWSKA, Karolina (Solaris National Synchrotron Radiation Centre, Jagiellonian University, Czerwone Maki 98, 30-392 Krakow, Poland); ROMAN, Maciej (Solaris National Synchrotron Radiation Centre, Jagiellonian University, Czerwone Maki 98, 30-392 Krakow, Poland)

Presenter(s) : WRÓBEL, Tomasz (Solaris National Synchrotron Radiation Centre, Jagiellonian University, Czerwone Maki 98, 30-392 Krakow, Poland)

Session Classification : Tue 05/07 Afternoon 2/ Abstract ID: