IWXM 2022 - 7th International Workshop on Metrology for X-ray Optics, Mirror Design and Fabrication

Event - IWXM 2022 - 7th International Workshop on Metrology for X-ray Optics, Mirror Design and Fabrication ↻

Title	IWXM 2022 - 7th International Workshop on Metrology for X-ray Optics, Mirror Design and Fabrication
When	Di, 5. April 2022 - Do, 7. April 2022

Description

IWXM 2022 - 7th International Workshop on Metrology for X-ray Optics, Mirror Design and Fabrication

The 7th International Workshop on Metrology for X-ray Optics, Mirror Design and Fabrication (IWXM) will be held in Berlin, Germany, from April 5th-7th, 2022 as a satellite workshop of the Synchrotron Radiation and Instrumentation-SRI conference 2022.

It will provide a forum for presentation and discussion on the latest developments in X-ray optics like mirrors, gratings, reflection zone plates, etc. with particular regard to improvements in metrology, deterministic surface finishing, developments in ML-coatings, simulation of optical systems performance. Contributions from private companies are welcome.

The workshop will include a series of oral and poster presentations as well as a tour of the BESSY-II synchrotron radiation source. The workshop will be held as a hybrid-event with the option of participation in person as well as virtual.

Topics

- Fabrication and finishing technology for X-ray mirrors
- Metrology challenges for X-ray mirrors
- Active and adaptive optics for X-ray applications
- X-ray beam shaping, wave front optimization and coherence preservation
- In-situ metrology and wave front measurements
- Optics for ultra-short/ultra-intense pulses
- X-Ray optics for astronomy
- Multilayer optics characterization and metrology
- Beamline performance and scientific results obtained by using novel optical schemes
- Specifications for optics at new storage ring and free-electron laser sources
- Simulation and data analysis
- Theoretical framework for describing source coherence, and the propagation of mutual coherence, along with analytical- and numerical- modeling
- Measurements of spatial and temporal coherence
- Application of AI for beamline performance optimization and operation

Learn more about this event by following website:

https://www.helmholtz-berlin.de/events/iwxm/index_en.html

Venue - Helmholtz-Zentrum Berlin für Materialien & Energie

Location	Helmholtz-Zentrum Berlin für Materialien & Energie
Street	Albert-Einstein-Str. 15
Postcode	12489
City	Berlin
County	Berlin
Country	DE