

ELETTRA 2.0 Workshop on Optical Diagnostics for Low-Emittance Storage Rings

Report of Contributions

Contribution ID: **1**

Type: **not specified**

Welcome

Wednesday 23 March 2022 09:00 (10 minutes)

Presenter: FERIANIS, Mario (Elettra)

Contribution ID: 2

Type: **not specified**

Elettra 2.0 & its diagnostics

Wednesday 23 March 2022 09:10 (30 minutes)

Brief description of new machine and desired Optical Diagnostics

Presenter: BASSANESE, Silvano (Elettra)

Contribution ID: 3

Type: **not specified**

Beam size monitoring at SLS (2.0)

Wednesday 23 March 2022 11:30 (30 minutes)

Currently at the SLS, visible light is used to measure the vertical beam size using the pi-polarization technique.

At SLS 2.0, this is not going to meet the requirements. So we looked at other possibilities and discovered other challenges.

This presentation invites you to discuss “the good, the bad, and the ugly” of the proposed solution.

Presenter: OZKAN LOCH, Cigdem (PSI - Paul Scherrer Institut)

Contribution ID: 4

Type: **not specified**

An X-ray beam property analyzer for next generation light sources

Wednesday 23 March 2022 12:00 (30 minutes)

SLS

Presenter: SAMADI, Nazanin (PSI - Paul Scherrer Institut)

Contribution ID: 5

Type: **not specified**

Emittance diagnostics at ESRF-EBS using the X-ray Pinhole Camera

Thursday 24 March 2022 09:00 (30 minutes)

Presenter: EWALD, Friederike (ESRF)

Contribution ID: 6

Type: **not specified**

Beam Profile Measurements using (Visible) Synchrotron Radiation Interferometry

Wednesday 23 March 2022 10:10 (30 minutes)

Presenter: TORINO, Laura (ALBA-CELLS)

Contribution ID: 7

Type: **not specified**

X-ray Emittance Monitors at ALBA

Wednesday 23 March 2022 09:40 (30 minutes)

Presenter: IRISO, Ubaldo (ALBA)

Contribution ID: 8

Type: **not specified**

Integral or Bunch Selective or even 2D: Interferometric Beam Profiling @ BESSY II

Wednesday 23 March 2022 12:30 (30 minutes)

Optical beam diagnostics at BESSY II is being upgraded towards bunch selective measurements at three new beamlines for visible light and THz using two bending magnets. Developments are focused on several directions

- + time resolution

- + spatial resolution

- + correlated 2D capabilities (for “time” vs. “x” or alternatively “y” as well as for “x” vs. “y”)

- + data acquisition time / illumination rate

The current status will be discussed including lessons that we have learned

Presenter: SCHIWIETZ, Gregor

Contribution ID: 9

Type: **not specified**

Monitoring beam emittance and beam relative energy spread at MAX IV

Wednesday 23 March 2022 11:00 (30 minutes)

Presenter: ANDERSSON, Ake (MAX IV)

Contribution ID: **10**

Type: **not specified**

Soleil

Thursday 24 March 2022 09:30 (30 minutes)

Presenter: LABAT, Marie (SOLEIL)

Contribution ID: **11**

Type: **not specified**

Emittance Diagnostics at PETRA IV

Thursday 24 March 2022 10:00 (30 minutes)

Presenters: KUBE, Gero (DESY); MARONGIU, Marco (DESY)

Contribution ID: **12**

Type: **not specified**

Closing day 1

Wednesday 23 March 2022 13:00 (10 minutes)

Presenter: FERIANIS, Mario (Elettra)