PETRA IV Workshop - Technical Challenges and Scientific Computing



■ Nov 18, 2020, 8:00 AM → Nov 20, 2020, 6:45 PM Europe/Berlin

Online

Recently, DESY has opened a call for PETRA IV scientific instrumentation, where researchers from all fields of science were asked to submit proposals for experiments (see indico page).

The workshop "Technical Challenges and Scientific Computing" is one out of four PETRA IV workshops dedicated to addressing technical and computing challenges and organized within the process of developing the PETRA IV scientific instrumentation proposals. This specific workshop is aiming to identify potential technical challenges and scientific computing issues with respect to PETRA IV and to foster the exchange of ideas and concepts among different user communities and the facility as well as to determine technical requirements for experiments at PETRA IV

The scope of the workshop covers talks about technical challenges and scientific computing at PETRA IV as well as a poster session.

This workshop will be an online workshop.

- Click here to download the full timetable.
- Click here for more information on the poster session and Zoom links.

Organization Committee: R. Döhrmann, J. Raabe, F. Seiboth, J. Garrevoet, A. Barty, T. Kracht, H. Schulte-Schrepping, T. Salditt, F. Westermeier, M. Sprung, J. Hakanpää, S. Fiedler, D. Pennicard, C. Wunderer, H. Graafsma, A.-C. Dippel, M. v. Zimmermann, M. Müller, P. Staron, C. Krywka, M. Etter, F. Bertram, C. Shen, U. Lienert, O. Wendt, M. Lippmann, A. Ehnes, W. Roseker, T. F. Keller, H.-P. Liermann, I. Sergeev, A. Kotlov, O. Leupold, M. Naumova, A. Schökel, F. Trinter, R. Farla, K. Glazyrin, K. Bagschik, S. Klumpp, O. Seeck, H. C. Wille, M. Kreuzeder



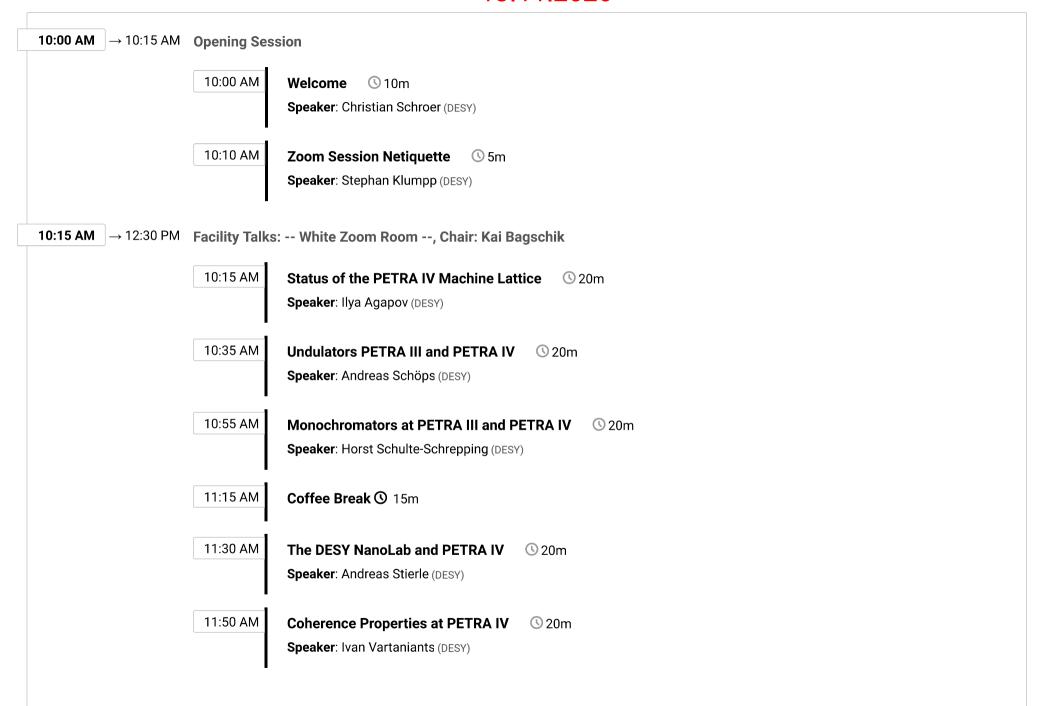


Registration



You are registered for this event.

18.11.2020

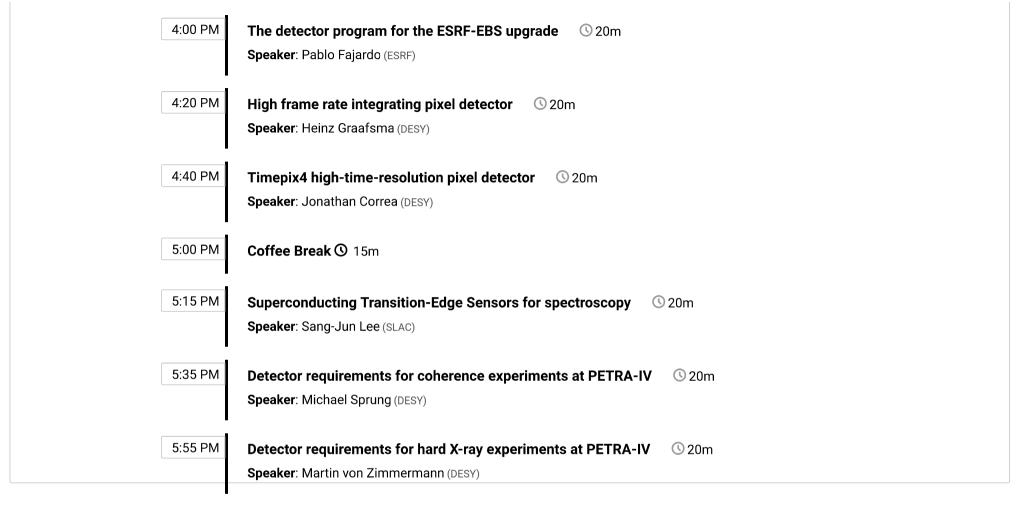




THURSDAY 19.11.2020

10:15 AM → 12:30 PM	Experiment Control and Data Acquisition: White Zoom Room, Chair: Thorsten Kracht, Anton Barty
	10:15 AM Intro - Experiment control 3 20m Speaker: Thorsten Kracht (DESY)
	modern strategies for high performace computing and data storage © 20m Speaker: Volker Guelzow (DESY)
	Future detector specifications, what to expect by the time we reach Petra-IV
	11:15 AM Coffe Break ① 15m
	Use case: Computing needs for serial crystallography: where should we be heading? Speaker: Tom White (DESY)
	Use cases at P11: from PETRA III towards PIV © 20m Speakers: Jan Meyer (DESY), Johanna Hakanpaeae (DESY)
	Automated analysis with ASAPO © 20m Speaker: Tim Schoof (DESY)

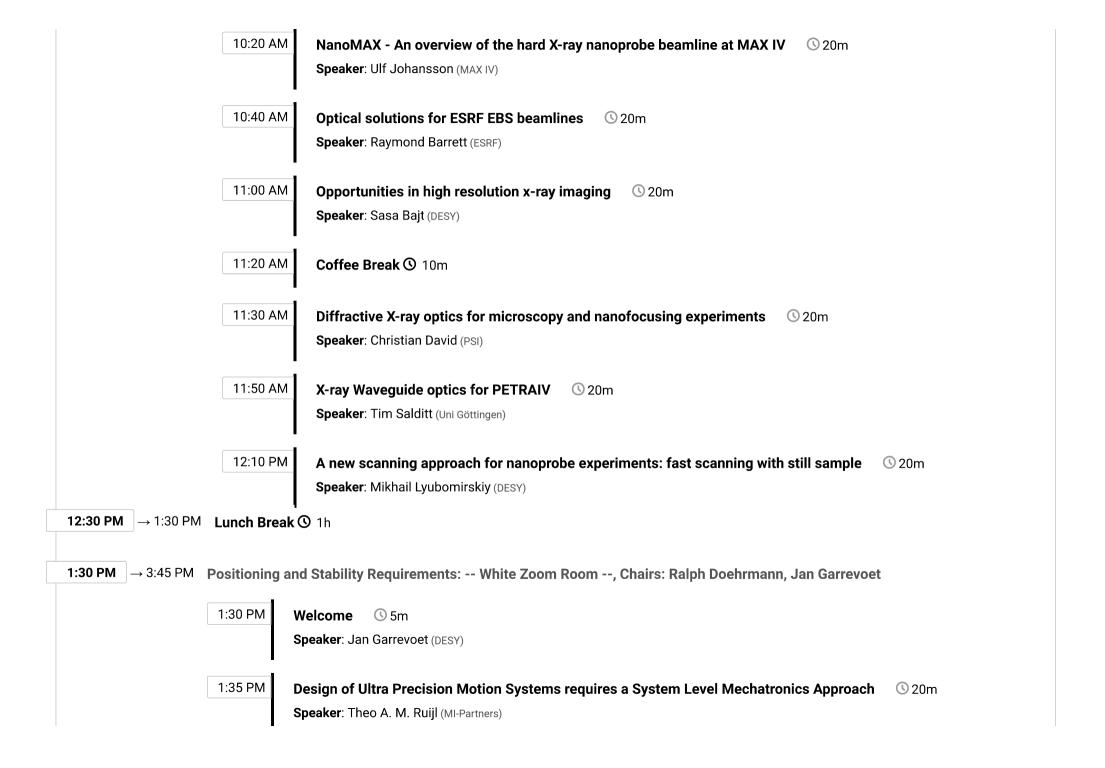
12:30 PM → 1:30 PM **Lunch Break ③** 1h → 3:45 PM Near Real Time Analysis and Offline Data Processing: -- White Zoom Room --, Chair: Anton Barty, Thorsten Kracht 1:30 PM **3** 20m Intro Speaker: Anton Barty (DESY) 1:50 PM Perspectives from the land of EuXFEL **3** 20m **Speaker**: Philipp Schmidt (EuXFEL) 2:10 PM Handling big data, present & future, Future of Tango **3** 20m Speaker: Andy Gotz (ESRF) 2:30 PM Coffee Break (15m 2:45 PM CS and big data handling at PSI **3** 20m Speaker: Alun Ashton (PSI) 3:05 PM CS and big data handling at Max-IV **3** 20m **Speaker**: Darren Spruce (MAX-IV) 3:25 PM CS and big data handling at Diamond (§ 20m Speaker: Christopher Reynolds (Diamond Light Source) 3:45 PM → 4:00 PM Coffee Break () 15m → 6:15 PM Detector Requirements at PETRA IV: -- White Zoom Room --, Chair: David Pennicard

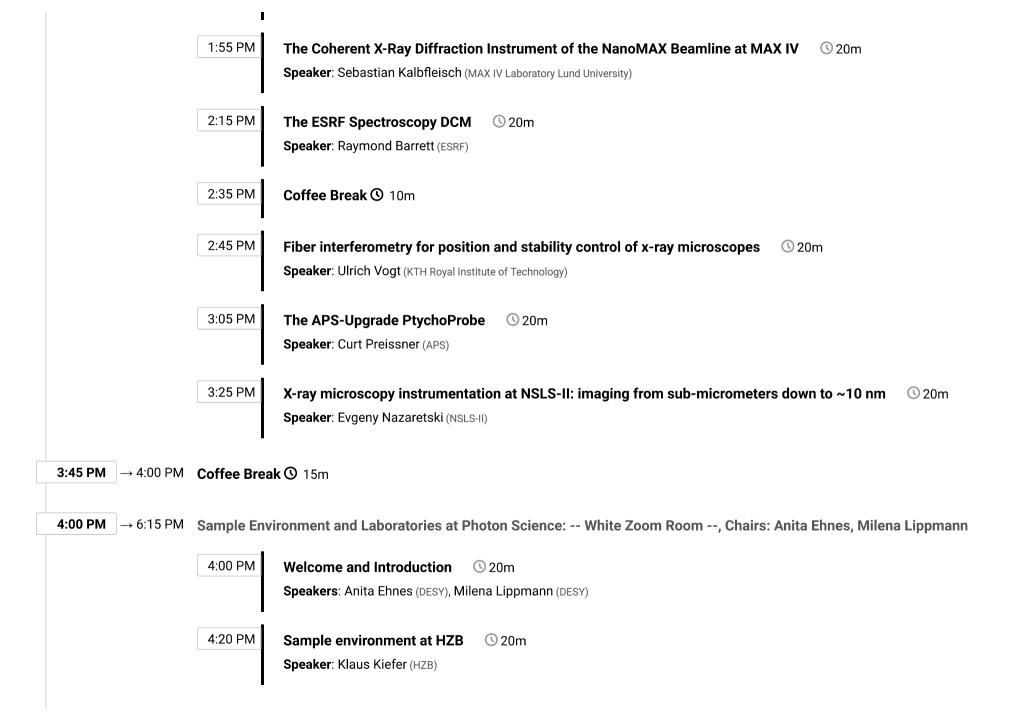


20.11.2020

10:15 AM → 12:30 PM Optics Demands to Access New Science: -- White Zoom Room --, Chair: Frank Seiboth

10:15 AM Welcome ⑤ 5m
Speaker: Frank Seiboth (DESY)





	4:40 PM	Sample Environments at the MAX IV Laboratory © 20m
		Speaker: Stefan Carlson (MAXIV)
	5:00 PM	Coffee Break ① 15m
	5:15 PM	The ESRF sample environment unit © 20m
		Speaker: Yvey Watier (ESRF)
	5:35 PM	Laser interferometer based sample stabilization for in situ high-energy grazing incidence techniques Speaker: Ann-Christin Dippel (DESY)
	5:55 PM	Sample environments for engineering materials experiments © 20m
		Speakers: Peter Staron (HZG), Ulrich Lienert (DESY)
6:15 PM → 6:45 PM	Summary /	Close Out