

Accelerator Middle Layer Workshop

JUNE 19-21 2024, DESY Hamburg (DE)

Welcome

I. Agapov

Goals and schedule I (Wednesday)

	Welcome	<i>Ilya Agapov</i> 12:30 - 12:45
	Overview of PETRA IV and DESY	<i>Riccardo Bartolini</i> 12:45 - 13:00
13:00	Middle Layer Overview	<i>Laurent Nadolski</i> 13:00 - 13:30
	APS-U commissioning	<i>Vadim Sajaev</i> 13:30 - 14:00
14:00	Web interfaces for accelerator control	<i>Jon Edelen</i> 14:00 - 14:30
	Control tools and architecture for the European XFEL	<i>Lars Froehlich</i>  14:30 - 15:00

Opening and overview session –
defining the scope

	Collaborative development strategy	<i>Martin Gaughran</i>  15:30 - 16:00
	Experimental tests of pytac and bluesky @ HZB	<i>Teresia Olsson</i>  16:00 - 16:30
	Databroker / Tiled for accelerator physics experiments	<i>Daniel Allan</i> 16:30 - 17:00
	Discussion	17:00 - 17:30

Software technologies

Goals and schedule II (Thursday)

Developments across the labs:
algorithms, tools, ML, etc.

Present and future operation tools and algorithms at BESSY II and MLS
09:00 - 09:30

Markus Ries et al.

Present and future operation tools and algorithms at ALS
09:30 - 10:00

Thorsten Hellert

Python for Accelerator Controls at CERN
10:00 - 10:30

Ivan Sinkarenko

Coffee break
10:30 - 11:00

MiddleLayer and Python at MAXIV
11:00 - 11:30

Marco Apollonio

Discussion
11:30 - 12:00

pyAT developments at Solaris, ML anomaly detection and measurement scripts porting
13:30 - 14:00

Jacek Biernat

Commissioning simulations for PETRA IV
14:00 - 14:30

Lukas Malina

ML Python package "xopt" for online tuning
14:30 - 15:00

Ryan Roussel

Python control tools at the Brazilian Light Source
15:00 - 15:30

Fernando da Sa

Python tool experience at NSLS-II and new feature suggestions
16:00 - 16:30

Yoshiteru Hidaka

pyAT with GPU
16:30 - 17:00

Jean-Luc PONS



Overview of tuning tools and algorithms
17:00 - 17:30

Xiaobiao Huang

Discussion
17:30 - 18:00

Goals and schedule III (Friday)

Overview and goals for the future financing	Simone Maria Liuzzo 	09:25 - 09:30
LEAPS	Marco Calvi et al.	09:30 - 10:00
Overview of EU project calls	Annika Henrike Thies	10:00 - 10:20
Coffee break		10:30 - 11:00
Consortium management		11:00 - 12:00

Funding discussions

Next steps towards future middle layer development

Rooms



Thursday and
Friday – FLASH
seminar room

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Accelerator Middle Layer Workshop

19-21 Jun 2024
Europe/Berlin timezone

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Overview
Timetable
Contribution List
My Conference

This workshop will bring together scientists and software engineers from all synchrotron radiation facilities and the world to discuss and start development of the Accelerator Middle Layer.

Zoom link: <https://desy.zoom.us/j/93662593817>

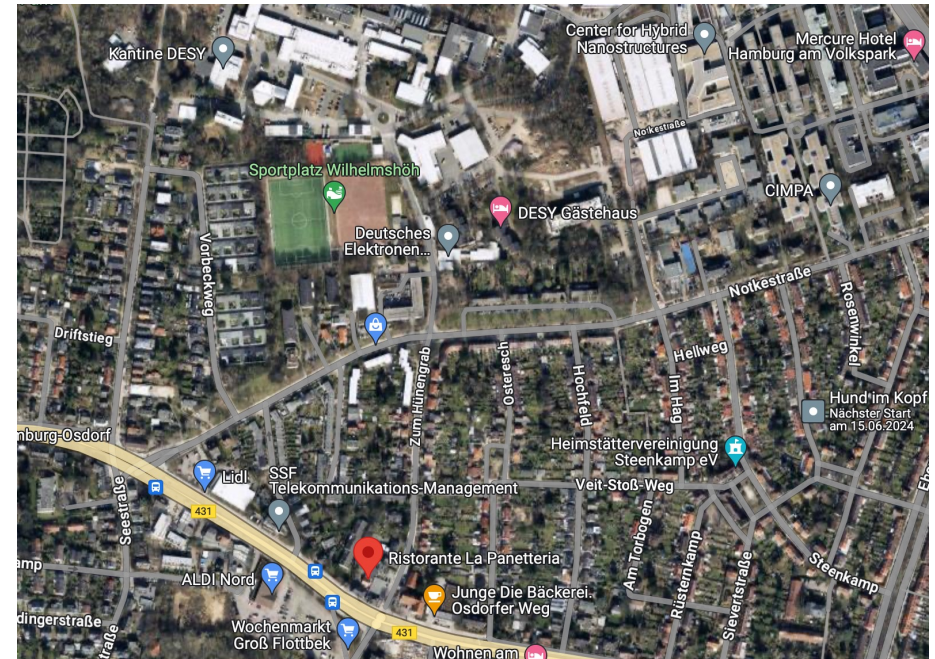
Zoom all days – link on indico page

Social

Welcome reception Wednesday 18.15



Dinner Thursday 19.00
La Panetteria (Osdorfer Landstraße 4)



Thanks to our sponsors

HELMHOLTZ



Have a great and productive time

For practical questions:

Silja Fischer silja.fischer@desy.de

Ilya Agapov ilya.agapov@desy.de

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