

## PIER Day 2025

25 November 2025, 1 – 6:30 p.m.

CFEL SR I-III and foyer

12:30 – 1 p.m.      Registration and snacks/ coffee  
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1 – 2 p.m.

### Welcome & Highlights from PIER Seed Projects

Francesca Calegari (Head of the PIER Executive Board)

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- “Investigation of the valence electronic structure and dynamics of nanostructured materials via high-order harmonic generation” (Agata Azzolin/ DESY)
- “Development of RF control for future gravitational wave detectors using SRF cavities” (Can Dokuyucu/ DESY)
- Spotlights from recently approved PIER Seed Projects:
  - “A mass spectrometry-based screening platform to identify co-substrates of nucleotide transferases” (Michael Hecht-Bucher/ UKE)
  - “A glimpse into the hidden world of pores: in-situ TEM observation of pore wetting and dewetting in mesoporous structures” (Charlotte Ruhmlieb/ UHH)
  - “Spin-resolved dynamics induced by ultrafast rotating current in chiral molecules” (Aurelien Sanchez/ DESY)

2 – 2:45 p.m.

### Joint research perspectives of DESY and UHH in specific fields

Chair: tba

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- Nanochemistry (Alf Mews/ UHH)
- Detector Research (Heinz Graafsma/ DESY)
- Artefact Profiling as a new PIER Competence Field (Claudia Colini/ UHH)

2:45 – 3 p.m.      Coffee break  
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The second part of the program is jointly presented by PIER and PIER PLUS:

3 – 3:45 p.m.

**Welcome** (Tilo Böhmann/ UHH)

**Keynote on AI/Data Science and Physics** (Lucie Flek/ University of Bonn, with an introduction by Gregor Kasieczka/ UHH)

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3:45 – 4:15 p.m.      **AI & Data Science in Science City Hamburg Bahrenfeld: Which Initiatives and Ideas Are Out There?**

- AI & Data Science Platform of UHH & DESY (Ties Behnke/ DESY)
- DASHH (Matthias Rarey / UHH)
- VISTA (Chris Biemann/ UHH)

4:15 – 5 p.m.      **Coffee Break & PIER PLUS Poster Walk: “AI and Science: Unexpected Connections and Method Innovation”**

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5 – 5:45 p.m.      **Panel Discussion: “Science City Hamburg Bahrenfeld and Beyond: Towards an Attractive Hub for AI & Data Science”**

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- Moderation: Ralf Krauter
- Panelists:
  - Tilo Böhmann/ UHH
  - Martin Burger/ DESY
  - Lucie Flek/ University of Bonn
  - Beate Heinemann/ DESY
  - Luisa Lucie-Smith/ UHH

5:45 – 6:30 p.m.      **Wrap-up & Mingle**

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