https://www.ipac26.org/

IPAC 2026

17th International Particle Accelerator Conference

May 17 - 22
Deauville | Normandy | France

- Pre-press proceedings at https://www.ipac26.org/prepress/ (not all papers; few if any slides yet)

AI/ML Satellite Meetings

Lunch satellite meetings on AI almost every day

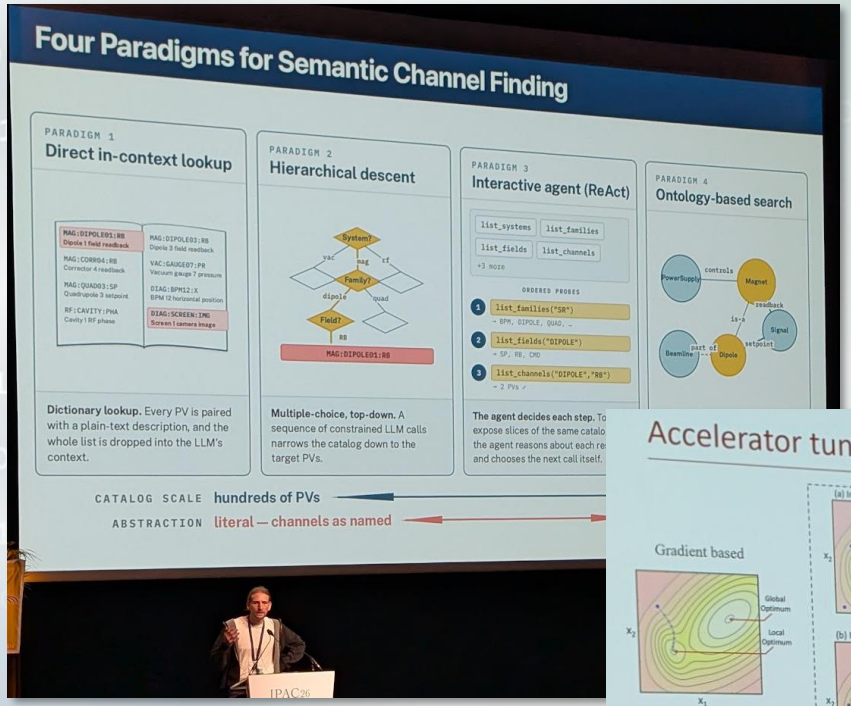
- Tue General AI: Adnan Ghribi
  - 52 people in room (on floor)
  - Recording and participants list available https://indico.cern.ch/event/1664807/
  - Free discussion, e.g. roadmaps, value propositions
- Wed ARTIFACT: Adnan Ghribi/Adrian Oeftiger
  - Slides and participants list available https://indico.cern.ch/event/1664808/
- Thu NARAD/MOAT: Todd/Jean-Luc
  - Discussion of US Genesis, MOAT, NARAD efforts with European/Asian representatives
  - Followup discussion with Adnan/Todd/Jean-Luc to form international coordination group or working group

Tuesday May 19th	12:30 – 14:00	AI for particle accelerators INDICO Registration	By registration	Gilda
Wednesday May 20th	12:30 – 14:00	ARTIFACT – Network INDICO Registration	By registration	Gilda
Thursday May 21st	12:30 – 14:00	Improved interoperability between lattice descriptions, simulation tools, and operational accelerator data		Kane

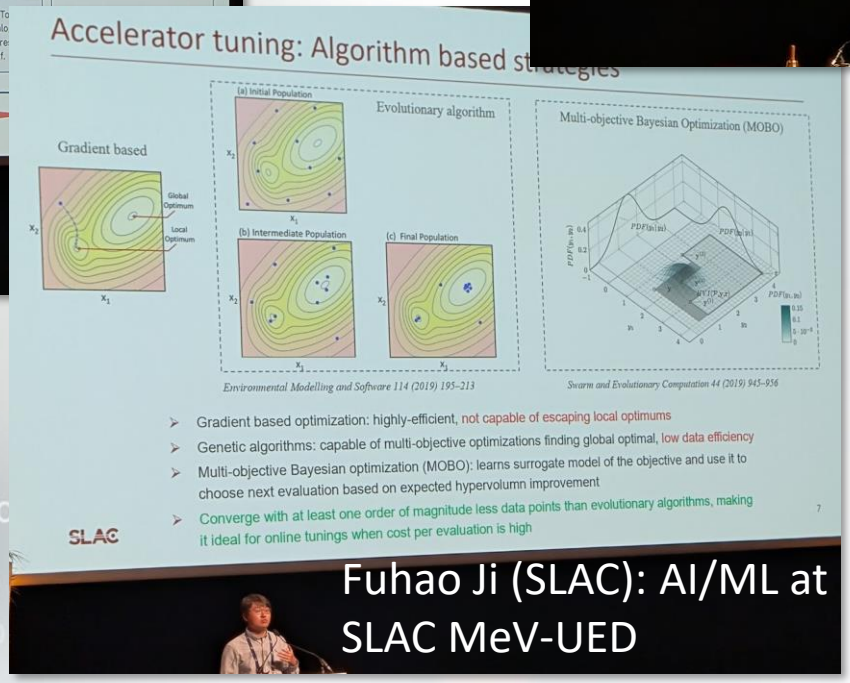
IPAC'26 EIC Satellite Meeting (Todd now member of EIC Accelerator Collaboration Board)

- Weds May 20: **EIC project and synergies with the Future Circular Collider studies**
  - Interest in FCC-ee device testing at EIC (similar to LHC testing of e.g. BBQ tunemeter at RHIC)
  - Interest in CERN personnel collaboration/cross-training, e.g. sending CERN students to collaborate with EIC on commissioning and beam studies
  - Previous EIC–FCC joint working groups identified many common technical areas, but most became inactive → more focused relaunch
    - identify small number of concrete relevant topics with active champions/deliverables
  - Topical thrusts:
    - Beam dynamics, simulation, and benchmarking with new tools (e.g. Xsuite)
    - Polarization and spin dynamics (previous success: spin tracking in Xsuite/Xtrack between CERN/BNL)
    - RF, SRF, and crab cavities (ongoing collaboration on crab LLRF control aggressive requirements)
    - Interaction region and MDI
    - Diagnostics, controls, and AI-ready operation
      - Beam diagnostics, BPM stability, beam-based phase loops, kickers, instrumentation, controls, and AI-assisted commissioning/operation came up repeatedly. "AI-ready accelerator" needs a technical strategy: data infrastructure, controls readiness, diagnostics, and integration. JLab has US/DOE leadership in this area.
    - Magnets, vacuum, alignment, and hardware prototyping (ongoing collaborations)

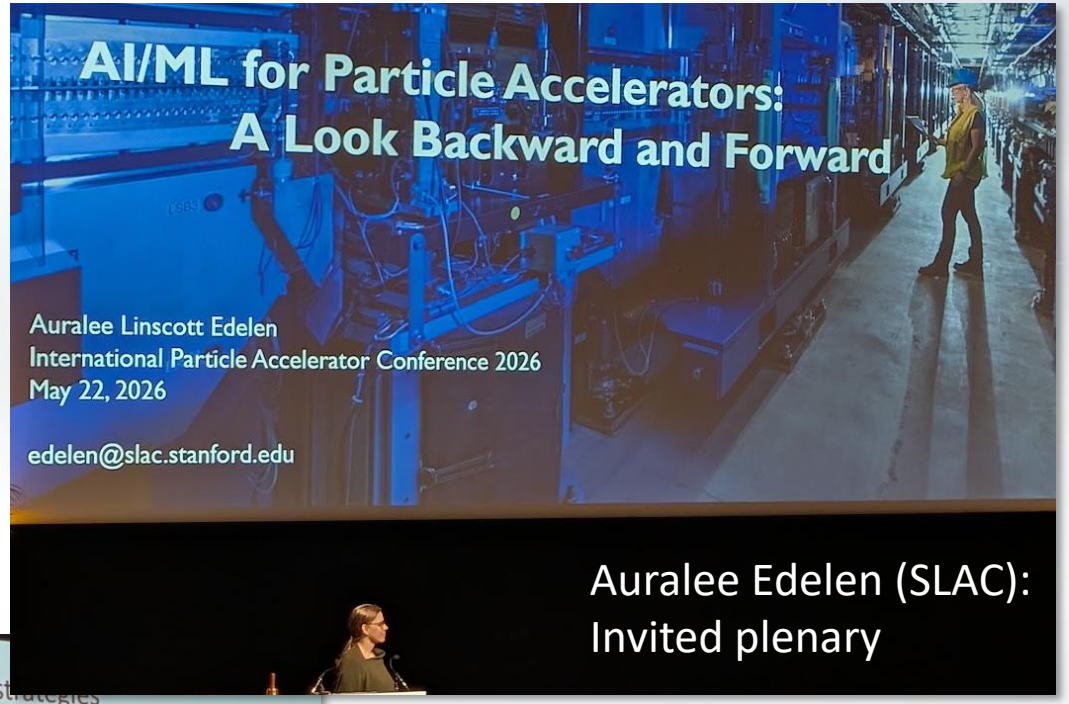
Great AI/ML Visibility



Thorsten Hellert (LBNL): talk on semantic channel finding for agentic workflows



Fuhao Ji (SLAC): AI/ML at SLAC MeV-UED



Auralee Edelen (SLAC): Invited plenary

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MOONLIGHT ON THE SERENGETI: CASTING (DIGITAL) SHADOWS WITH SIMBA, PUMBA, LAURA AND FRIENDS

J. Jones*, A. Brynes, M. Johnson, M. King, N. Ziyan
ASTeC STFC Daresbury Laboratory, Daresbury, UK and The Cockcroft Institute, Daresbury, UK

"Invited" champagne-section poster: Daresbury team on integrated modeling, ontology, workflow framework for e.g. CLARA