



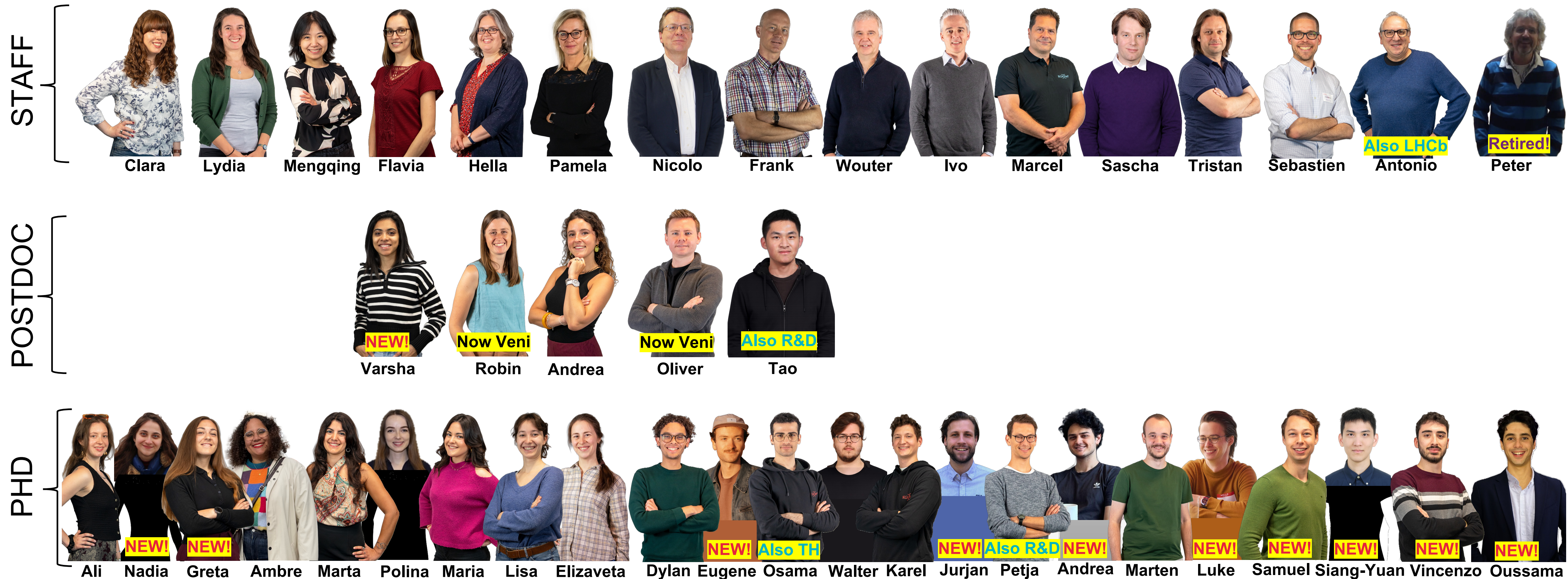
ATLAS GROUP OVERVIEW

NIKHEF JAMBOREE 2026

Flavia de Almeida Dias



NIKHEF ATLAS GROUP



+ 10 master students and 7 bachelor students

ROLES IN THE ATLAS COLLABORATION 2025-2026

Since last Jamboree

Physics & data processing

- **Statistics** Committee Chair: Lydia Brenner
- **Derivation** Coordinator: Flavia de Almeida Dias
- **Derivation** Production Manager: Flavia de Almeida Dias



Detector & Reconstruction Software

- **HGTD** Institutional Board Chair: Frank Filthaut
- **HGTD** Electronics Coordinator: Frank Filthaut
- **ITK** Strip Global Mechanics Coordinator: Marcel Vreeswijk
- **DAQ** Readout Firmware Coordinator: Frans Schreuder
- **Muon** Software Coordinator: Peter Kluit



Collaboration & Organization

- **CB** Chair Advisory Group Member: Frank Filthaut
- **Early Career** Scientist Board: Robin Hayes
- **Equity, Diversity and Inclusion** Coordinator: Flavia de Almeida Dias

PHD THESES COMPLETED 2025-2026

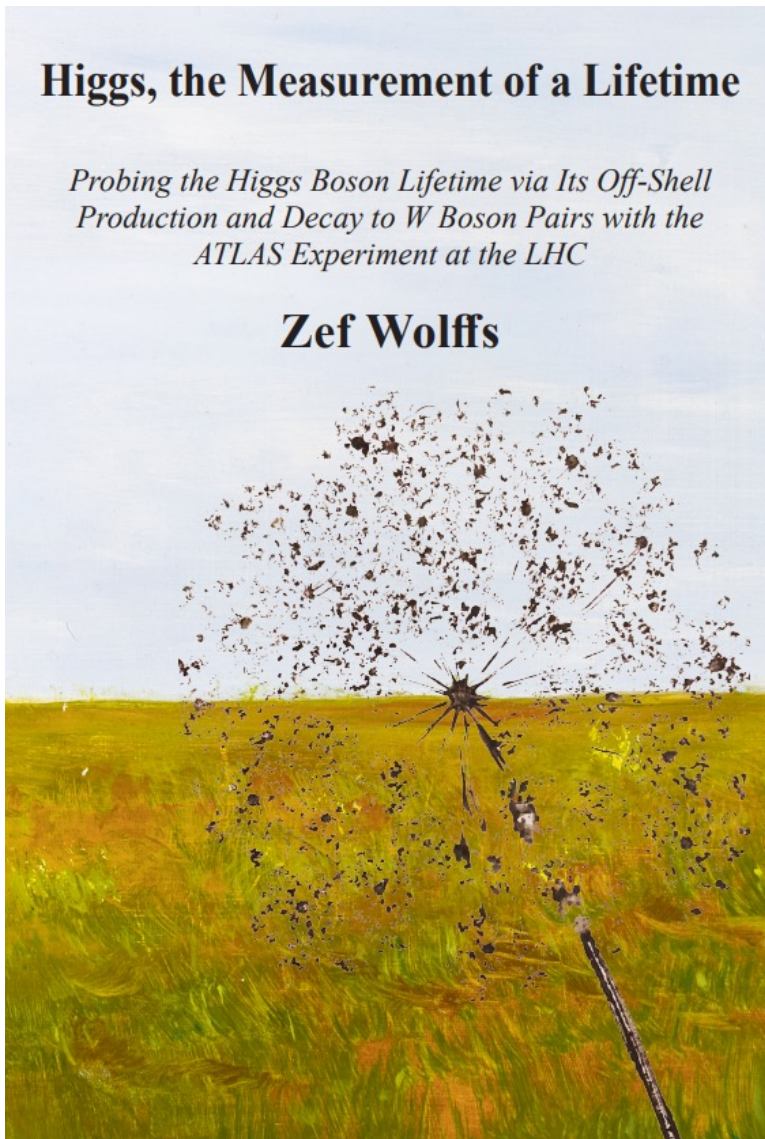
Since last Jamboree

Andrea Visibile



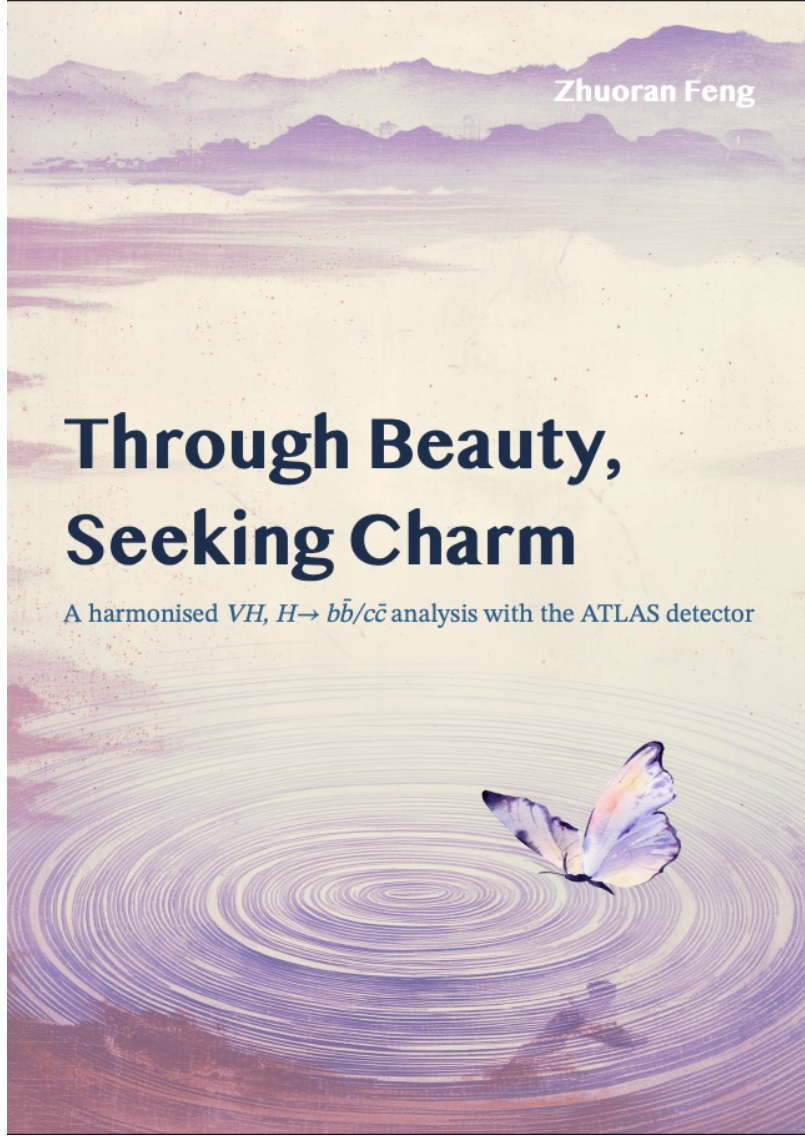
20 Feb 2026

Zef Wolffs



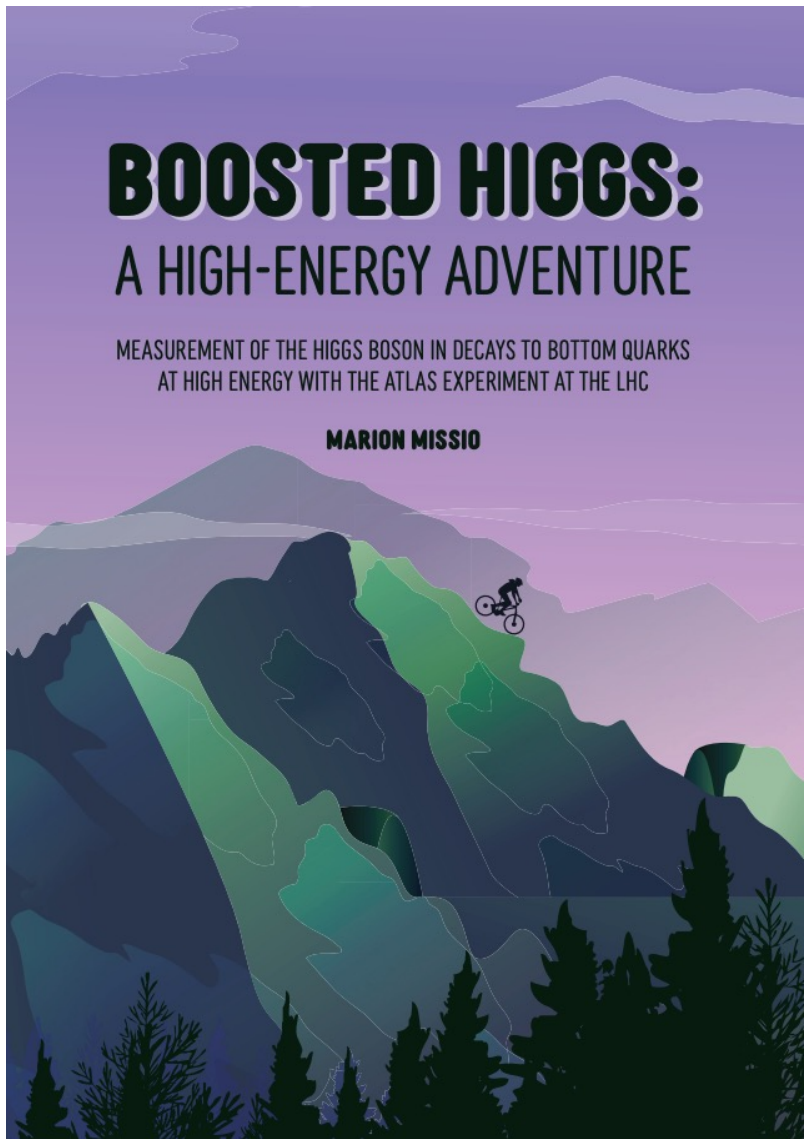
11 Feb 2026

Zhuoran Feng



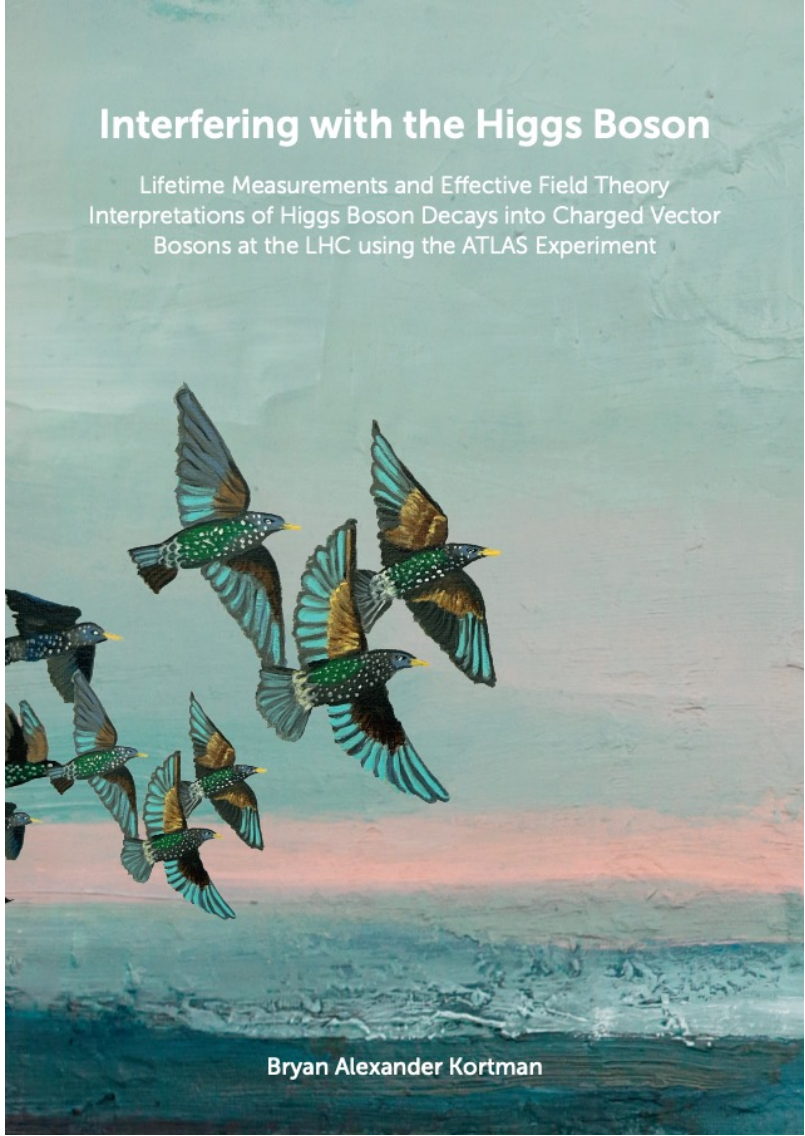
24 Nov 2025

Marion Missio



23 Oct 2025

Bryan Kortman



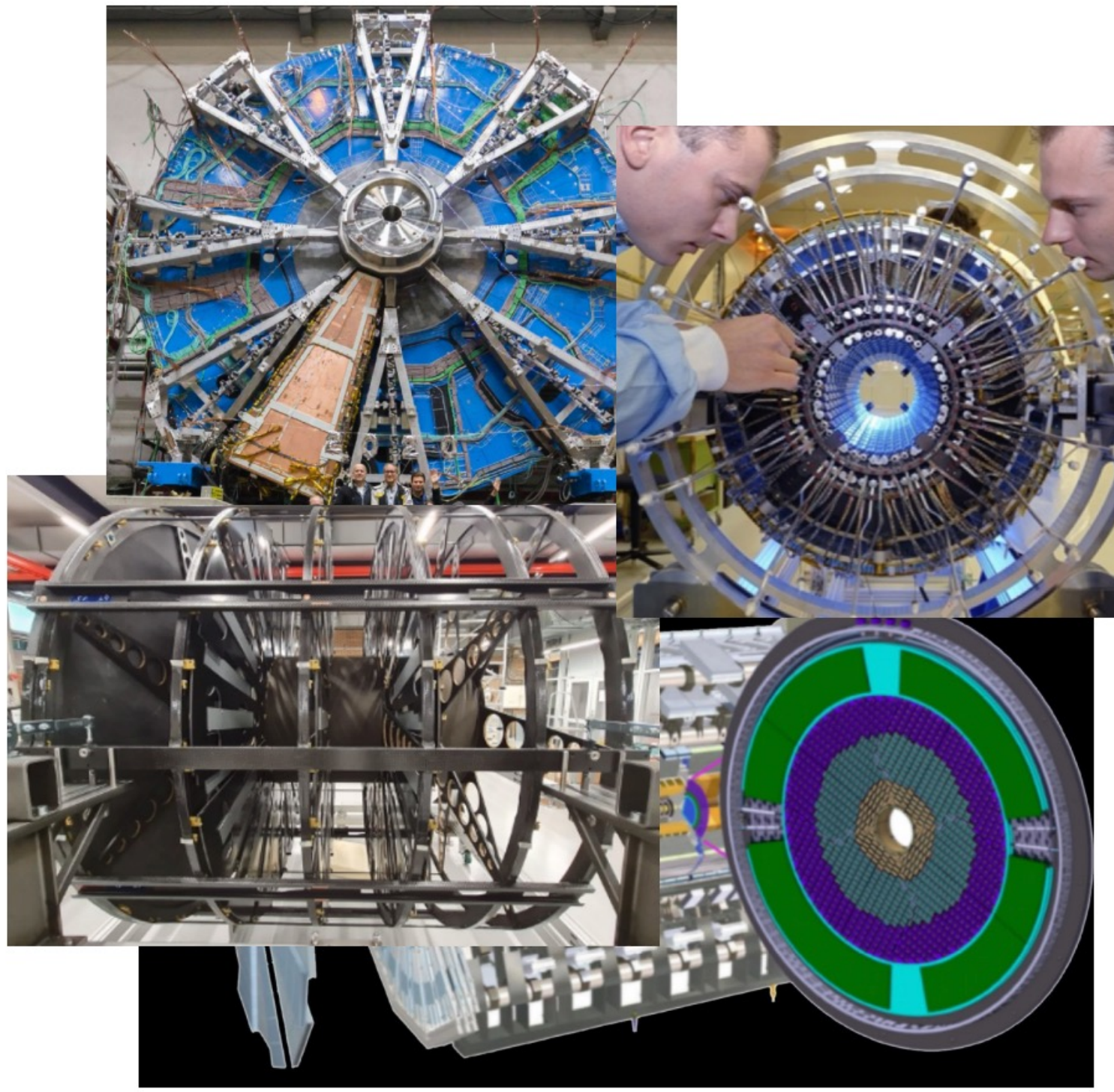
3 Oct 2025

Diana Pyatiizbyantseva



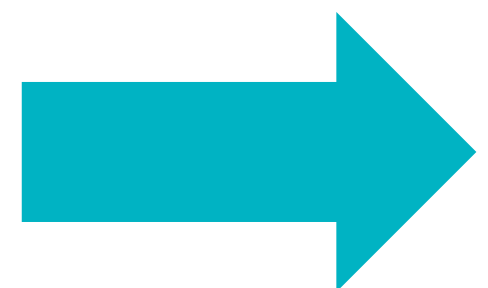
23 Sept 2025

FROM DETECTOR TO PHYSICS



Detector building & commissioning

Tristan's talk



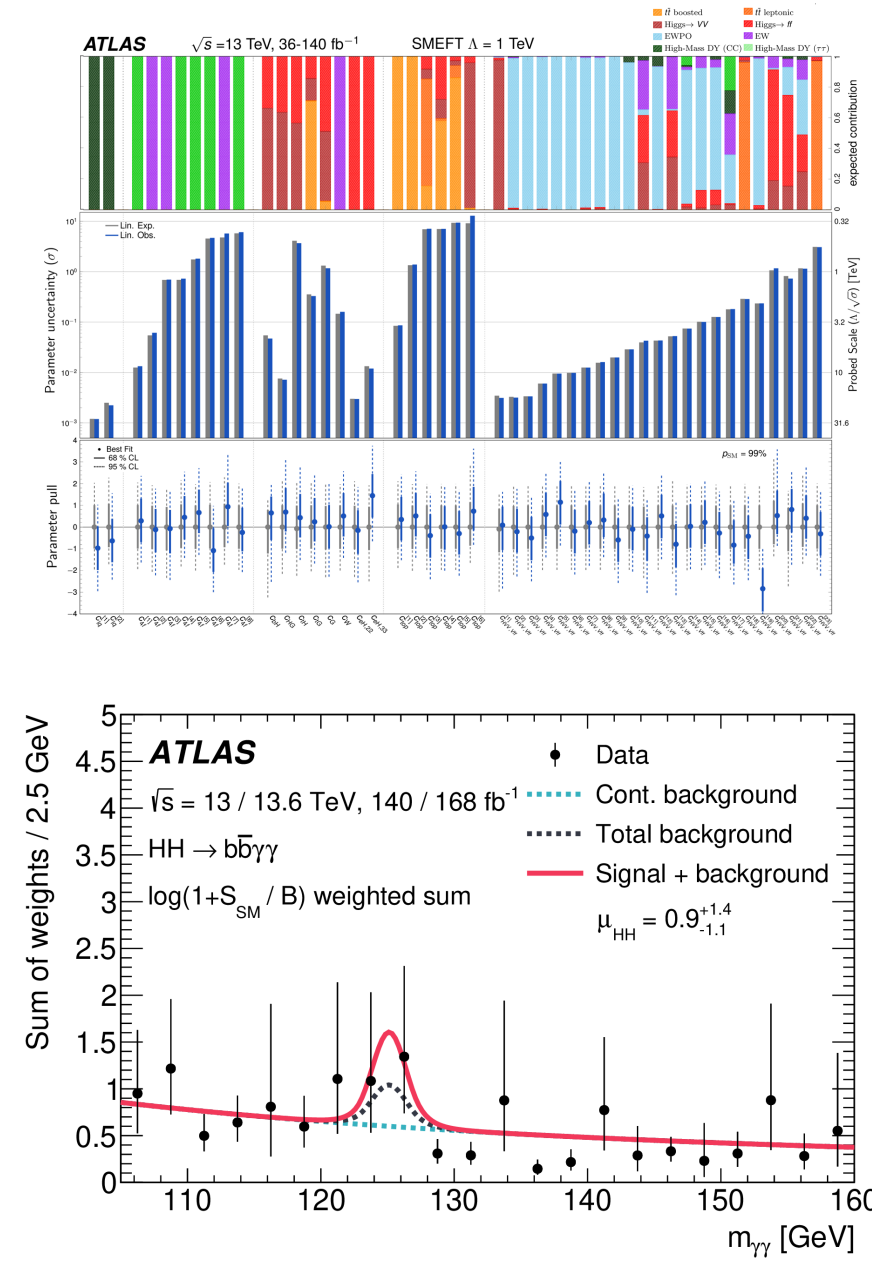
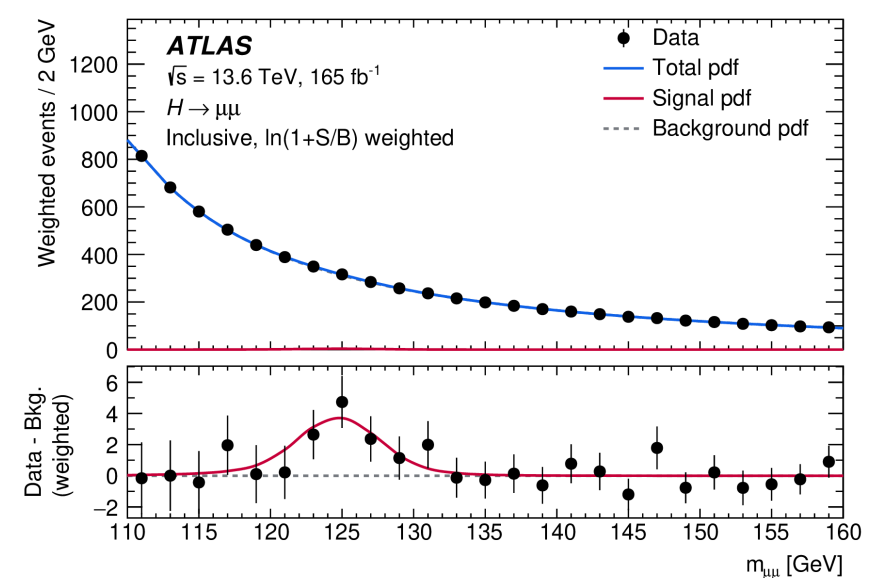
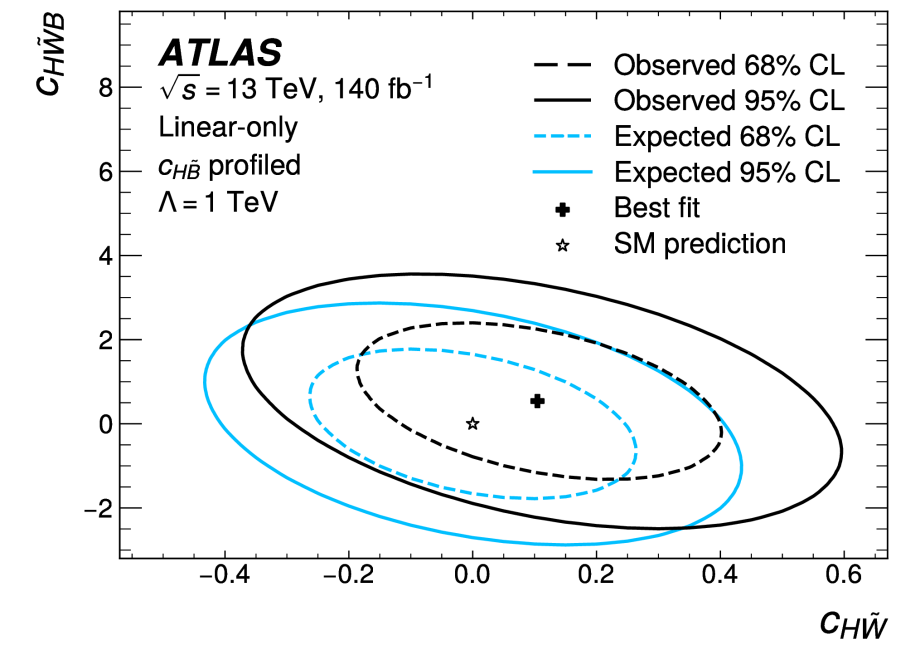
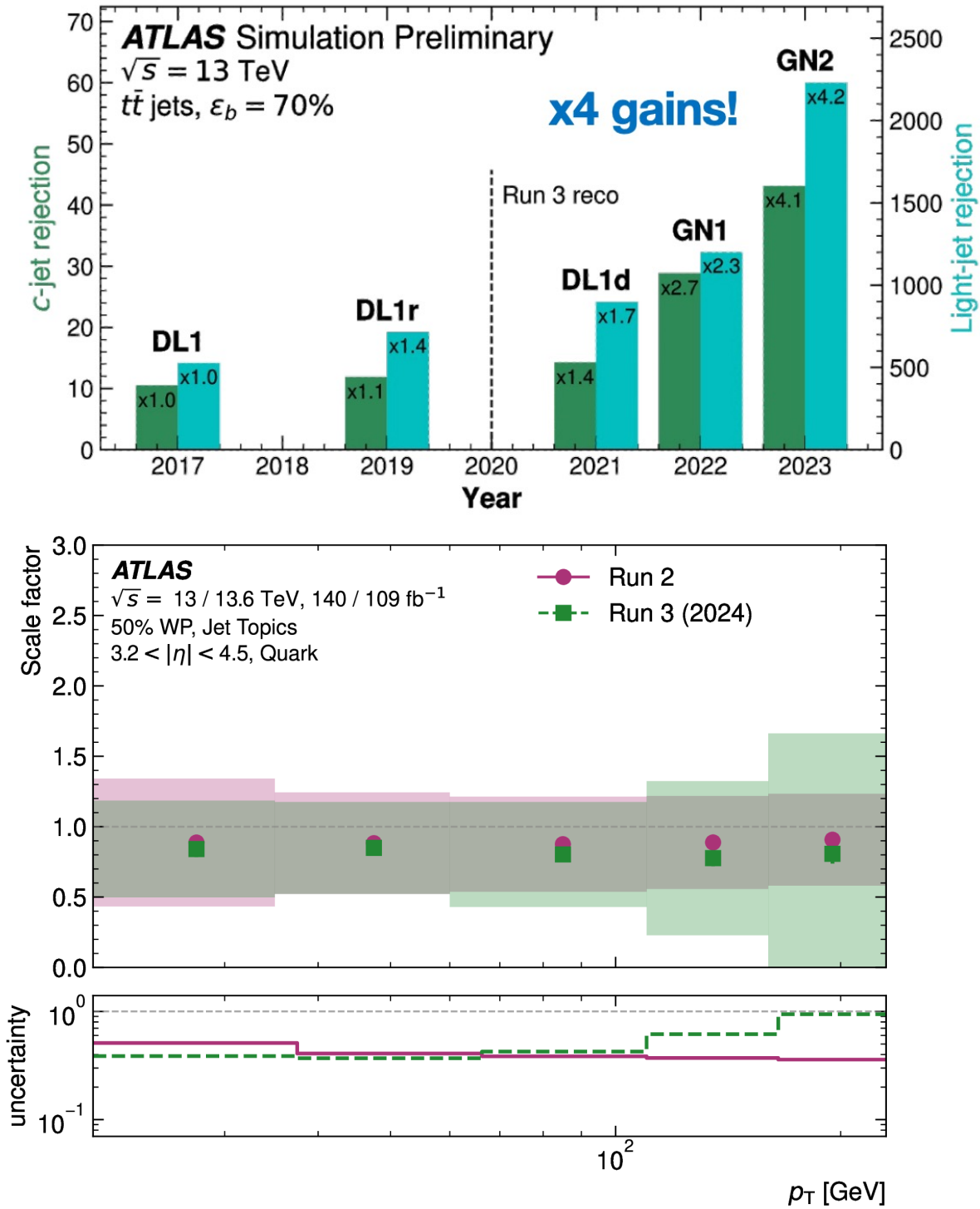
Algorithms & performance

Siang-Yuan's talk



Data analyses

Robin's talk



NIKHEF ATLAS PHYSICS OVERVIEW

Exploring TeV scale physics at the LHC



Electroweak symmetry breaking

h-V interaction

h-h interaction

*Origin of
fermion masses*

h-f interaction



V-V scattering

3V, 4V couplings



Couplings

rare and anomalous



*New particles
& interactions*

*resonance searches
effective field theory*

Synergistic to: tracking, jet tagging, ML/AI, statistics, SMEFT

NIKHEF ATLAS GROUP

