

Zurich Particle Physics PhD Seminar 2026

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome

Monday 23 March 2026 09:00 (10 minutes)

Contribution ID: 2

Type: **not specified**

Coffea Break

Tuesday 24 March 2026 10:20 (20 minutes)

Contribution ID: 3

Type: **not specified**

Tours through PSI Experimental Facilities

Tuesday 24 March 2026 13:00 (1 hour)

Contribution ID: 4

Type: **not specified**

Social Event

Monday 23 March 2026 18:00 (2 hours)

Contribution ID: 5

Type: **not specified**

2-Loop Electroweak Corrections to Higgs Pair Production via Gluon Fusion

Monday 23 March 2026 09:10 (20 minutes)

Presenter: CHANG, Jamie

Session Classification: Session 1

Contribution ID: 6

Type: **not specified**

Triple differential cross section of Drell-Yan production (tentative)

Monday 23 March 2026 09:30 (20 minutes)

Presenter: STÄGER, Fabian

Session Classification: Session 1

Contribution ID: 7

Type: **not specified**

$t\bar{t}Hbb$ @ CMS

Monday 23 March 2026 09:50 (20 minutes)

Presenter: BONOMELLI, Giorgia

Session Classification: Session 1

Contribution ID: 8

Type: **not specified**

An automated parton level generator based on LTD

Monday 23 March 2026 10:10 (20 minutes)

Presenter: GIRAUDO, Nicolo

Session Classification: Session 1

Contribution ID: 9

Type: **not specified**

Construction and Commissioning of the Mu3e Vertex Detector

Monday 23 March 2026 11:00 (20 minutes)

Presenter: SENER, Thomas (University of Zürich)

Session Classification: Session 2

Contribution ID: **10**

Type: **not specified**

Pixel detectors for muSR

Monday 23 March 2026 11:20 (20 minutes)

Presenter: ISENRING, Pascal (PSI - Paul Scherrer Institut)

Session Classification: Session 2

Contribution ID: **11**

Type: **not specified**

Fast imaging of neutrinos in monolithic scintillator (tentative)

Monday 23 March 2026 11:40 (20 minutes)

Presenter: DIEMINGER, Till

Session Classification: Session 2

Contribution ID: 12

Type: **not specified**

An efficient spin transport system for ultra-cold neutrons in the n2EDM experiment

Monday 23 March 2026 12:00 (20 minutes)

Presenter: CARATSCH, Gian (ETH ZÃ¼rich)

Session Classification: Session 2

Contribution ID: 13

Type: **not specified**

Pulse Shape Discrimination modelling for LEGEND-200 HPGe detectors

Monday 23 March 2026 14:00 (20 minutes)

Presenter: SALEH, Giovanna

Session Classification: Session 3

Contribution ID: 14

Type: **not specified**

Temporal evolution of the broadband emission from Blazars: from observations to modelling

Monday 23 March 2026 14:20 (20 minutes)

Presenter: ABHIR, Jayant

Session Classification: Session 3

Contribution ID: 15

Type: **not specified**

ALPs and iDM searches in NA64 (tentative)

Monday 23 March 2026 14:40 (20 minutes)

Presenter: MONGILLO, Martina

Session Classification: Session 3

Contribution ID: 16

Type: **not specified**

First Observation of the Full the ^{125}Xe Positron Emission Decay

Monday 23 March 2026 15:00 (20 minutes)

Presenter: HERNANDEZ, Miguel

Session Classification: Session 3

Contribution ID: 17

Type: **not specified**

Search for Higgs boson produced via gluon-fusion and decaying to b quarks using b-parking data with the CMS Experiment

Monday 23 March 2026 16:10 (20 minutes)

Presenter: CELOTTO, Giovanni

Session Classification: Session 4

Contribution ID: **18**

Type: **not specified**

Short flow-time expansion of the LEFT

Monday 23 March 2026 16:30 (20 minutes)

Presenters: LARA CROSAS, Oscar; LARA CROSAS, Òscar (Universit t Z rich)

Session Classification: Session 4

Contribution ID: **19**

Type: **not specified**

Triboson production at the LHC

Monday 23 March 2026 16:50 (20 minutes)

Presenter: GARBARINO, Paolo

Session Classification: Session 4

Contribution ID: **20**

Type: **not specified**

HH4b @ CMS

Monday 23 March 2026 17:10 (20 minutes)

Presenter: HARTE, Thierry

Session Classification: Session 4

Contribution ID: **21**

Type: **not specified**

Dark matter searches with Qrocodile

Tuesday 24 March 2026 09:00 (20 minutes)

Presenter: BRUGGER, Noah

Session Classification: Session 5

Contribution ID: 22

Type: **not specified**

Climbing the peak of precision physics with McMule

Tuesday 24 March 2026 09:20 (20 minutes)

Presenter: KOLLATZSCH, Sophie

Session Classification: Session 5

Contribution ID: 23

Type: **not specified**

Leveraging Reinforcement Learning, Genetic Algorithms and Transformers for background determination in particle physics (tentative)

Tuesday 24 March 2026 09:40 (20 minutes)

Presenter: HIJANO MENDIZABAL, Guillermo

Session Classification: Session 5

Contribution ID: **24**

Type: **not specified**

TBD

Tuesday 24 March 2026 10:00 (20 minutes)

Presenter: HÖHL, David

Session Classification: Session 5

Contribution ID: 25

Type: **not specified**

Higgs to diphoton: Fiducial cross-sections and EFT interpretation

Tuesday 24 March 2026 10:40 (20 minutes)

Presenter: HÄRRINGER, Nico

Session Classification: Session 6

Contribution ID: 26

Type: **not specified**

Measurement of tau(g-2) via photon+photon→ tau+tau in PbPb UPC at CMS

Tuesday 24 March 2026 11:00 (20 minutes)

Presenter: SHOKR, Eslam

Session Classification: Session 6

Contribution ID: 27

Type: **not specified**

Flavour Deconstruction without fundamental scalars

Tuesday 24 March 2026 11:20 (20 minutes)

Presenter: COVONE, Sebastiano

Session Classification: Session 6

Contribution ID: 28

Type: **not specified**

Di-Higgs production (tentative)

Tuesday 24 March 2026 11:40 (20 minutes)

Presenter: BILANDZIJA, Filip

Session Classification: Session 6

Contribution ID: 29

Type: **not specified**

Ultrafast Anomaly Detection at CMS

Tuesday 24 March 2026 14:10 (20 minutes)

Presenter: ODAGIU, Patrick

Session Classification: Session 7

Contribution ID: **30**

Type: **not specified**

TBD

Tuesday 24 March 2026 14:30 (20 minutes)

Presenter: KWOK, Anson

Session Classification: Session 7

Contribution ID: 31

Type: **not specified**

Measurement of the branching fraction ratio $B^0 \rightarrow \omega \rightarrow \pi^+ \pi^- \pi^0 K \pi / B^0 \rightarrow J/\psi \rightarrow \pi^+ \pi^- \pi^0 K \pi$

Tuesday 24 March 2026 14:50 (20 minutes)

Presenter: ANDREOLA, Pasquale

Session Classification: Session 7

Contribution ID: 32

Type: **not specified**

Parity-violating asymmetries at low energies

Tuesday 24 March 2026 16:00 (20 minutes)

Presenter: RADIC, David (PSI - Paul Scherrer Institut)

Session Classification: Session 8

Contribution ID: **33**

Type: **not specified**

TBD

Tuesday 24 March 2026 16:20 (20 minutes)

Presenter: MENG, Fanqiang

Session Classification: Session 8

Contribution ID: 34

Type: **not specified**

Calibration of LEGEND-200 and BSM searches

Tuesday 24 March 2026 16:40 (20 minutes)

Presenter: REMESAN SREEKALA, Aravind

Session Classification: Session 8

Contribution ID: 35

Type: **not specified**

5 Particle 2 Loop Amplitudes with Gluons, Photons and Quarks

Tuesday 24 March 2026 15:10 (20 minutes)

Presenter: KUSCHKE, Viktor

Session Classification: Session 7

Contribution ID: 36

Type: **not specified**

Probing lepton flavor universality with the $R(Ds)$ ratios at CMS

Monday 23 March 2026 15:20 (20 minutes)

Presenter: WAGNER, Patricia

Session Classification: Session 3