

Polarized Perspectives: Tagging and Learning in the SM

Report of Contributions

Contribution ID: 3

Type: **not specified**

Local information

Presenter: SCHOEFBECK, Robert (Austrian Academy of Sciences (AT))

Session Classification: Jet substructure / flavor tagging

Contribution ID: 21

Type: **not specified**

Test

Contribution ID: 22

Type: **not specified**

Track reconstruction with timing in ATLAS during the HL-LHC for Run 4 and beyond

Friday, 21 February 2025 09:35 (30 minutes)

Presenter: SANTI, Lorenzo (CERN)

Session Classification: Time assisted reconstruction

Contribution ID: 23

Type: **not specified**

4D Tracking & Vertexing with ACTS

Friday, 21 February 2025 10:35 (30 minutes)

Presenter: BUTTI, Pierfrancesco (CERN)

Session Classification: Time assisted reconstruction

Contribution ID: 24

Type: **not specified**

Polarised boson tagging at the LHC with machine-learning methods

Friday, 21 February 2025 11:30 (30 minutes)

Presenter: Dr GROSSI, Michele (CERN)

Session Classification: Polarisation

Contribution ID: 25

Type: **not specified**

Presentation on quantum-entanglement measurements at the LHC

Friday, 21 February 2025 12:00 (30 minutes)

Presenter: FABBRI, Federica (Universita e INFN, Bologna (IT))

Session Classification: Polarisation

Contribution ID: 26

Type: **not specified**

ML techniques for reconstruction developed and used for the future CMS High Granularity Calorimeter

Thursday, 20 February 2025 09:30 (30 minutes)

Presenter: GHOSH, Shamik (Centre National de la Recherche Scientifique (FR))

Session Classification: Jet substructure / flavor tagging

Contribution ID: 27

Type: **not specified**

Progress towards sample generation (+discussion?)

Thursday, 20 February 2025 10:00 (30 minutes)

Presenter: POTAMIANOS, Karolos (University of Warwick (GB))

Session Classification: Jet substructure / flavor tagging

Contribution ID: 28

Type: **not specified**

Search for a heavy resonance decaying into a Z and a Higgs boson

Thursday, 20 February 2025 11:00 (30 minutes)

Presenter: MALARA, Andrea (Universite Libre de Bruxelles (BE))

Session Classification: Applications of ML techniques

Contribution ID: 29

Type: **not specified**

Search for diresonant new physics in a final state comprising a gluon and two hadronically decaying W bosons

Thursday, 20 February 2025 11:30 (30 minutes)

Presenters: AGAPITOS, Antonis (Peking University (CN)); AGAPITOS, Antonis

Session Classification: Applications of ML techniques

Contribution ID: 30

Type: **not specified**

VH, H->bb/cc analyses in ATLAS

Thursday, 20 February 2025 14:00 (30 minutes)

Presenter: BOUQUET, Romain (INFN - University of Genova (Italy))

Session Classification: Applications of ML techniques

Contribution ID: **31**

Type: **not specified**

Boosted b/c-tagging techniques in ATLAS

Thursday, 20 February 2025 14:30 (30 minutes)

Presenter: BARR, Jackson (UCL)

Session Classification: Applications of ML techniques

Contribution ID: 32

Type: **not specified**

Energy correlators in top quarks (+ multibosons)

Thursday, 20 February 2025 16:00 (30 minutes)

Presenter: SCHWARZ, Dennis (Austrian Academy of Sciences (AT))

Session Classification: Nonstandard (EEEC and FSM)

Contribution ID: 33

Type: **not specified**

The FMS mechanism in multi-boson processes

Thursday, 20 February 2025 16:30 (30 minutes)

Presenter: Prof. MAAS, Axel Torsten (University of Graz)

Session Classification: Nonstandard (EEEC and FSM)

Contribution ID: 34

Type: **not specified**

Track reconstruction with timing in CMS during HL-LHC [remote]

Friday, 21 February 2025 10:05 (30 minutes)

Presenters: DE LEO, Ksenia (INFN Trieste (IT)); COSSUTTI, Fabio (Universita e INFN Trieste (IT))

Session Classification: Time assisted reconstruction

Contribution ID: 35

Type: **not specified**

Simulation tools for polarised bosons

Friday, 21 February 2025 12:30 (30 minutes)

Presenter: RUIZ, Richard (Institute of Nuclear Physics (IFJ) PAN)

Session Classification: Polarisation

Contribution ID: 36

Type: **not specified**

Discussion

Thursday, 20 February 2025 12:00 (30 minutes)

Presenters: CAPPATI, Alessandra (Universite Catholique de Louvain (UCL) (BE)); POTAMIANOS, Karolos (University of Warwick (GB))

Session Classification: Applications of ML techniques

Contribution ID: 37

Type: **not specified**

Machine-learning VH-bb EFT effects in CMS

Thursday, 20 February 2025 15:00 (30 minutes)

Presenter: CHATTERJEE, Suman (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Applications of ML techniques

Contribution ID: **38**

Type: **not specified**

Local Information

Thursday, 20 February 2025 09:25 (5 minutes)

Presenter: SCHOEFBECK, Robert (Austrian Academy of Sciences (AT))

Contribution ID: 39

Type: **not specified**

Introduction

Friday, 21 February 2025 09:30 (5 minutes)

Presenter: CAIRO, Valentina (CERN)

Session Classification: Time assisted reconstruction