

Session Program

30 March 2026 to 1 April 2026

BB2026 workshop on R&D in particle physics

R&D for HEP

Tuesday 31 March

14:00

R&D for HEP: Detectors, algorithms, computing technologies, physics measurements

Session | **Location:** Institute of Physics, Salle "Dragan Popovic" | **Conveners:** Tongguang Cheng, Predrag Milenovic

14:00–14:20 **Quantum-inspired ML algorithms**

Speaker

Hideki Okawa

14:20–14:40 **Event-topology identification using QAOA variations**

Speaker

Myeonghun Park

14:40–14:50

ML and quantum algorithms for tackling combinatorially complex final states

Speaker

Jovan Mitic

14:50–15:00 **AI-Assisted review of the CMS Publications**

Speaker

Jovan Mitic

15:00–15:05

Intermezzo (followed by students talk's on physics measurements at LHC)

15:05–15:15 **ATLAS ttH/Hcc analysis**

Speaker

Andjela Besir

15:15–15:25 **ATLAS Higgs rare production and decay**

Speaker

Yixiang Zhang

15:25–15:35 **ATLAS ttH/tH lepton tagging**

Speaker

Ema Maricic

15:35

16:00

R&D for HEP: Detectors, algorithms, computing technologies, physics measurements

Session | **Location:** Institute of Physics, Salle "Dragan Popovic" | **Conveners:** Li Yuan, Jelena Jovicevic, Vukasin Milosevic

16:00–16:20 **CMS MTD R&D - BTL integration/assembly/testing**

Speakers

Tongguang Cheng, Zhilang Wang

16:20–16:40 **ECAL data performance and data quality monitoring**

Speaker

Jin Wang

16:40–16:50 CMS ECAL R&D - readout electronics testing**Speaker**

Darko Brunet

16:50–16:55**Intermezzo (followed by students talk's on physics measurements at LHC)****16:55–17:05 CMS H->ZZ->4l differential XS measurement with Run 3 data****Speaker**

Yuji Li

17:05–17:15 CMS H->ZZ->4l STXS measurement**Speaker**

Luka Tihomir Bulaja

17:15–17:25 CMS ZZ->2l2nu VBS analysis**Speaker**

Hong Gao

17:25–17:35 Constrain the Higgs selfcoupling using H->ZZ->4l offshell events**Speaker**

Longsheng Tan

17:35

Wednesday 1 April

09:00

11:00

R&D for HEP: In person discussion and joint hands-on work

Session | **Location:** Faculty of Physics