

**GRIEG, Early Universe,  
UW+UiB**

# **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## group photo

*Wednesday 14 December 2022 14:10 (5 minutes)*

**Presenters:** KOUTROULIS, Fotis (IFT, Warsaw University); LARA PEREZ, Iñaki; LARA PEREZ, Iñaki (Warsaw University)

Contribution ID: 2

Type: **not specified**

## **ATLAS plans for CP measurement in Higgs-> tau tau**

**Presenters:** AAKVAAG, Erlend (University of Bergen (NO)); STUGU, Bjarne (University of Bergen (NO)); STUGU, Bjarne (University of Bergen (NO))

Contribution ID: 3

Type: **not specified**

## **Task 1:Machine learning assisted mono-jet anlysis in search for Dark Matter and new electricaly neutral stable particles and its theoretical interpretation.**

*Wednesday 14 December 2022 14:20 (20 minutes)*

**Presenters:** SAKURAI, Kazuki (University of Warsaw); BUANES, Trygve (University of Bergen (NO)); BUANES, Trygve (Department of Physics and Technology)

Contribution ID: 4

Type: **not specified**

## **task 2: Discriminating theories by joint mono-jet and mono-Higgs analysis.**

*Wednesday 14 December 2022 14:40 (20 minutes)*

**Presenters:** ROLBIECKI, Krzysztof (University of Warsaw); FOMIN, Nikolai (University of Bergen (NO))

Contribution ID: 5

Type: **not specified**

## **task 3: Constraining the mechanism of the Electroweak Phase Transition by di-Higgs boson production, $p p \rightarrow h h$ .**

*Wednesday 14 December 2022 15:00 (20 minutes)*

**Presenters:** OLECHOWSKI, Marek; Prof. LIPNIACKA, Anna (University of Bergen (NO)); ADHIKARY, Amit (University of Warsaw); ADHIKARY, Amit (University of Warsaw, Poland)

Contribution ID: 6

Type: **not specified**

## **task 4: Probing new sources of CP violation in the Higgs-fermion sector.**

*Wednesday 14 December 2022 15:20 (20 minutes)*

**Presenters:** STUGU, Bjarne (University of Bergen (NO)); STUGU, Bjarne (University of Bergen (NO)); SAHOO, Dibyakrupa; ROSIEK, Janusz Andrzej (University of Warsaw (PL))

Contribution ID: 7

Type: **not specified**

## **task 5:nvestigating the sphaleron and mini-black hole production at the LHC and its dependence on the mechanism of EWPT.**

*Wednesday 14 December 2022 15:40 (20 minutes)*

**Presenters:** BUANES, Trygve (University of Bergen (NO)); Prof. LIPNIACKA, Anna (University of Bergen (NO)); GREFSRUD, Aurora Singstad (University of Bergen (NO)); BUANES, Trygve (Department of Physics and Technology)