

## **Session Program**

**13-17 Jan 2020**



# **3rd FCC Physics and Experiments Workshop**

## ***Theory progress for precision physics at FCC, part 2***

CERN, 222/R-001

# Monday 13 January

14:00

## Theory progress for precision physics at FCC, part 2

Session | Location: CERN, 4/3-006 - TH Conference Room

14:00-14:25

**Electroweak calculations for  $\sin^2 \theta_W^{\text{eff}}$  measurements. from LEP to LHC and FCC, ambiguities of definitions and systematics**

**Speaker**

Zbigniew Andrzej Was

14:25-14:50

**Higgs-gluon-gluon vertex at four loops (N3LO)**

**Speaker**

Matthias Steinhauser

14:50-15:15

**Numerical results and expansions for  $gg \rightarrow hh$**

**Speaker**

Joshua Davies

15:15-15:40

**Vertex functions in QCD - two loops and beyond**

**Speaker**

John Gracey

15:40-16:00

**Coffee break**

16:00-16:25

**Numerical calculations in  $d=4$**

**Speaker**

Roberto Pittau

16:25-16:50

**Two-loop Master Integrals for five-point amplitudes: status and prospects**

**Speaker**

Konstantinos Papadopoulos

16:50-17:15

**Groomed heavy jet mass at NNLO+NNLL accuracy**

**Speaker**

Zoltan Laszlo Trocsanyi

18:00