

Session Program

Oct 5 - 9, 2026

High Precision for Hard Processes (HP2 2026)

Track 3 - Precision Physics / BSM

KIT, NTI Hörsaal, building 30.10
Engesserstr. 5, 76131 Karlsruhe

Thu, October 8

11:15 AM

Track 3 - Precision Physics / BSM: Parallel Session V

Session | **Location:** KIT, NTI Hörsaal, building 30.10, Engesserstr. 5, 76131 Karlsruhe | **Convener:** Matthias Kerner

11:15 – 11:40 AM

Higgs boson decay to massive bottom quarks at $\mathcal{O}(\alpha_s^4)$

Speaker

Marco Niggetiedt

11:40 AM – 12:05 PM

Taking the First Steps Toward Higgs Production at N4LO in QCD

Speaker

Adi Prasanna Suresh

12:05 – 12:30 PM

Two-loop mixed QCD-EW corrections to quark-induced Higgs production at hadron colliders

Speaker

Federico Ripani

12:30 – 12:55 PM

Renormalization of the general Two-Higgs-Doublet Model

Speaker

Martin Gabelmann

12:55 PM

4:15 PM

Track 3 - Precision Physics / BSM: Parallel Session VI

Session | **Location:** KIT, NTI Hörsaal, building 30.10, Engesserstr. 5, 76131 Karlsruhe | **Convener:** Heidi Rzehak

4:15 – 4:40 PM

Next-to-Leading-Order QCD and EW Corrections to the Dark Matter Relic Density in the Framework of the CxSM

Speaker

Karim Elyaouti

4:40 – 5:05 PM

ZH production in gluon fusion at NLO QCD within SMEFT

Speaker

Benjamin Campillo

5:05 – 5:30 PM

Higgs Mass Predictions in the CP-Violating High-Scale NMSSM

Speaker

Dr Christoph Borschensky

5:30 – 5:55 PM

NNLO QCD predictions for identified hadron production in association with neutral electroweak gauge bosons.

Speaker

Gabriele Fiore

5:55 – 6:20 PM

Reconstructing distributions from Monte-Carlo simulations using orthogonal basis functions

Speaker

Ivan Novikov

6:20 PM