

Session Program

Oct 5 - 9, 2026

High Precision for Hard Processes (HP2 2026)

Plenary

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

Mon, October 5

1:45 PM

Plenary

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

1:45 – 2:00 PM

Welcome and information

Speaker

Gudrun Heinrich

2:00 – 2:45 PM

Recent LHC measurements and prospects for HL-LHC

Speaker

Monica Dunford

2:45 – 3:15 PM

Precision Higgs Physics

Speaker

Alexander Karlberg

3:15 – 3:45 PM

Top quark physics

Speaker

Sven-Olaf Moch

3:45 PM

Tue, October 6

9:00 AM

Plenary

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

9:00 – 9:30 AM

Recent developments in slicing and subtraction methods for higher-order QCD calculations at colliders

Speaker

Chiara Signorile-Signorile

9:30 – 10:00 AM

Analyticity Bootstrap of Feynman Integrals

Speaker

Yan-Qing Ma

10:00 – 10:30 AM

Recent developments in parton showers

Speaker

Daniel Reichelt

10:30 AM

2:00 PM

Plenary

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

2:00 – 2:30 PM

Precision electroweak physics at the LHC and at future colliders

Speakers

Mathieu Pellen, Mathieu Pellen

2:30 – 3:00 PM

Loop-Tree and Loop-Loop Duality with OpenLoops

Speakers

Stefano Pozzorini, Stefano Pozzorini, Stefano Pozzorini

3:00 – 3:30 PM

Numerical methods for electroweak corrections and applications

Speakers

Simone Devoto, Simone Devoto

3:30 PM

Wed, October 7

9:00 AM

Plenary

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

9:00 – 9:30 AM

Factorization beyond Color Coherence

Speaker

Thomas Becher

9:30 – 10:00 AM

Analytic methods for multi-loop amplitudes

Speakers

Vasily Sotnikov, Vasily Sotnikov

10:00 AM

Thu, October 8

9:00 AM

Plenary

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

9:00 – 9:45 AM

Experimental opportunities and precision prospects at Future Colliders

Speaker

Markus Klute

9:45 – 10:15 AM

Precision meets BSM physics

Speakers

Heidi Rzehak, Heidi Rzehak, Heidi Rzehak

10:15 – 10:45 AM

Precision meets Effective Field Theories for BSM Physics

Speaker

Anke Biekötter

10:45 AM

2:15 PM

Plenary

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

2:15 – 2:45 PM

Recent developments in PDFs

Speaker

Juan Rojo

2:45 – 3:15 PM

Precision meets Machine Learning

Speaker

Daniel Maitre

3:15 – 3:45 PM

Quantum Machine Learning for Particle Physics

Speaker

Michael Spannowsky

3:45 PM

Fri, October 9

11:10 AM

Plenary

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

11:10 – 11:40 AM **The two-loop pentagon frontier**

Speakers
Simone Zoia, Simone Zoia

11:40 AM – 12:10 PM **Parameter Space Methods for Phenomenology**

Speaker
Stephen Jones

12:10 – 12:55 PM **Closing Talk**

Speaker
Thomas Gehrmann

1:35 PM

12:55 – 1:05 PM **Farewell**