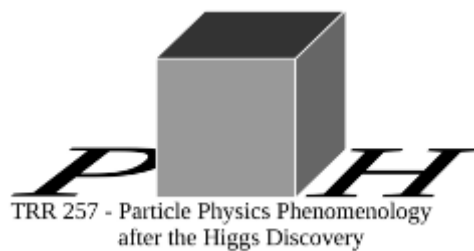


Session Program

Jun 8 - 10, 2022



Young Scientists Meeting of the CRC TRR 257

Young scientists talks

building 30.22 KIT Campus Süd , Physik-Hörsaal Nr.3
Karlsruhe

Wed, June 8

1:30 PM

Young scientists talks

Session | **Location:** building 30.22 KIT Campus Süd , Physik-Hörsaal Nr.3, Karlsruhe | **Convener:** Nico Gubernari

13:30 – 14:00

Higgs Pair Production in a Composite 2HDM

Speaker

Felix Egle

14:00 – 14:30

$\texttt{AutoEFT}$: Automating Effective Field Theories

Speaker

Magnus Schaaf

2:30 PM

3:00 PM

Young scientists talks

Session | **Location:** building 30.22 KIT Campus Süd , Physik-Hörsaal Nr.3, Karlsruhe | **Convener:** Chiara Signorile-Signorile

15:00 – 15:30

On phase-space integrals with Heaviside functions

Speaker

Daniel Baranowski

15:30 – 16:00

An automated framework to calculate jet functions at NNLO

Speaker

Kevin Brune

4:00 PM

Thu, June 9

9:30 AM

Young scientists talks

Session | **Location:** building 30.22 KIT Campus Süd , Physik-Hörsaal Nr.3, Karlsruhe | **Convener:** Marco Bonetti

09:30 – 10:00

Massive quark form factors at three loops

Speaker

Dr Fabian Lange

10:00 – 10:30

NRQCD matching coefficients with two mass scales

Speaker

Mr Manuel Egner

10:30 AM

11:00 AM

Young scientists talks

Session | **Location:** building 30.22 KIT Campus Süd , Physik-Hörsaal Nr.3, Karlsruhe | **Convener:** Marco Fedele

11:00 – 11:30

Searching for dark radiation at the LHC

Speaker

Alessandro Morandini

11:30 – 12:00

Tasting Flavoured Majorana Dark Matter

Speaker

Mr Harun Acaroglu

12:00 PM

3:30 PM

Young scientists talks

Session | **Location:** building 30.22 KIT Campus Süd , Physik-Hörsaal Nr.3, Karlsruhe | **Convener:** Maria Laura Piscopo

15:30 – 16:00

Estimating QCD-factorization amplitudes through $SU(3)$ symmetry in $B \rightarrow P P$ decays

Speaker

Gilberto Tetlalmatzi-Xolocotzi

16:00 – 16:30

The heavy meson lifetimes

Speaker

Aleksey Rusov

16:30 – 17:00

Non-Perturbative Calculations for B -mesons

Speaker

Matthew Black

17:00 – 17:30

NLO QCD corrections to inclusive $b \rightarrow c \ell \bar{\nu}$ decay spectrum up to $1/m_b^3$

Speaker

Dr Daniel Moreno

5:30 PM

Fri, June 10

9:00 AM

Young scientists talks

Session | **Location:** building 30.22 KIT Campus Süd , Physik-Hörsaal Nr.3, Karlsruhe | **Convener:** Dr Matteo Fael

09:00 – 09:30

Production and decay of the Higgs boson in association with top quarks

Speaker

Daniel Stremmer

09:30 – 10:00

ttH production in the Higgs characterisation model at NLO in QCD with full off-shell effects

Speaker

Jonathan Hermann

10:00 – 10:30

Phenomenology of ttbb at the LHC

Speaker

Michele Lupattelli

10:30 AM

11:00 AM

Young scientists talks

Session | **Location:** building 30.22 KIT Campus Süd , Physik-Hörsaal Nr.3, Karlsruhe | **Convener:** Daniel Moreno

11:00 – 11:30

Precision Test of the Muon-Higgs Coupling at a High-energy Muon Collider

Speaker

Tobias Striegl

11:30 – 12:00

Multi-emission kernels for parton branching algorithms

Speaker

Maximilian Löschner

12:00 PM

1:00 PM

Young scientists talks

Session | **Location:** building 30.22 KIT Campus Süd , Physik-Hörsaal Nr.3, Karlsruhe | **Convener:** Chiara Signorile-Signorile

13:00 – 13:30

Mixed QCD-electroweak corrections to Higgs plus jet production at the LHC

Speaker

Marco Bonetti

13:30 – 14:00

Two-loop Leading Yukawa corrections to $gg \rightarrow HH$

Speaker

Hantian Zhang

14:00 – 14:30

Predictions for $gg \rightarrow hh$ at full NLO QCD comparing non-linear and linear EFT frameworks and truncation effects

2:30 PM

Speaker
Jannis Lang