

Session Program

14-16 Jul 2021



PARTICLEFACE 2021: Unraveling New Physics Workshop & Management Committee Meeting

Working Group Meeting

Institute Ruđer Bošković, DVORANA (3. krilo)
Institute Ruđer Bošković Bijenička cesta 54 HR-10000 Zagreb Croatia

Wednesday 14 July

09:30

Working Group Meeting: Morning session

Session |

Location: Institute Ruđer Bošković, DVORANA (3. krilo), Institute Ruđer Bošković Bijenička cesta 54 HR-10000 Zagreb Croatia |

Convener: Tania Robens

09:30–10:00

Overview of the COST Action PARTICLEFACE

Speaker

German Rodrigo

10:00–10:30

Comparison of public codes for Drell-Yan processes at NNLO accuracy

Speaker

Zoltan Laszlo Trocsanyi

10:30–11:00

COFFEE BREAK

11:00–11:30

Precision predictions for the Higgs masses and mixings in the CP-violating MSSM

Speaker

Heidi Angelika Rzehak

11:30–12:00

One-loop corrections to light neutrino masses in gauged U(1) extensions of the standard model

Speaker

Zoltan Laszlo Trocsanyi

12:00

14:00

Working Group Meeting: Afternoon session

Session |

Location: Institute Ruđer Bošković, DVORANA (3. krilo), Institute Ruđer Bošković Bijenička cesta 54 HR-10000 Zagreb Croatia |

Convener: Ilja Dorsner

14:00–14:30

Probing the internal structure of hadrons in $pp \rightarrow \gamma + \pi^+ + X$ at NLO QCD + LO QED accuracy

Speaker

David Renteria-Estrada

14:30–15:00

Composite Higgs states in the top-bottom condensation model

Speaker

Alexander A. Osipov

15:00–15:30

COFFEE BREAK

15:30–16:00

Towards precise false vacuum decay rates

Speaker

Miha Nemevsek

16:00-16:30

The Inert Doublet Model at current and future colliders

Speaker

Tania Robens

16:30

Thursday 15 July

09:25

Working Group Meeting: Morning session

Session |

Location: Institute Ruđer Bošković, DVORANA (3. krilo), Institute Ruđer Bošković Bijenička cesta 54 HR-10000 Zagreb Croatia |

Convener: Richard Ruiz

09:30–10:00 **Workings of WG1 with some special**

Speaker

Adam Kardos

10:00–10:30

Progress in Amplitude Evolution and Improved Parton Branching Algorithms

Speaker

Simon Platzer

10:30–11:00 **COFFEE BREAK**

11:00–11:30 **Four-loop scattering amplitudes journey into the forest**

Speaker

Norma Selomit Ramírez Uribe

11:30–12:00 **The pion-photon transition form factor at two loops in QCD**

Speaker

Tobias Huber

12:00

14:00

Working Group Meeting: Afternoon session

Session |

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Convener: Miha Nemevsek

14:00–14:30 **On the difference between FOPT and CIPT for hadronic tau decays**

Speaker

Andre Hoang

14:30–15:00

Renormalization of non-singlet quark operator matrix elements for deep-inelastic scattering

Speaker

Sam Van Thurenhout

15:00–15:30 **COFFEE BREAK**

15:30–16:00

An easy way to obtain beta functions in gauge theories within Implicit Regularization: a two-loop study

Speaker

Adriano Cherchiglia

16:00-16:30

Chiral Theories in Dimensional regularization and Breitenlohner-Maison/'t Hooft-Veltman scheme: application to chiral QED at 2-loops

Speaker

Dr Hermès Bélusca-Maïto

16:30

Friday 16 July

09:30

Working Group Meeting: Morning session

Session |**Location:** Institute Ruđer Bošković, DVORANA (3. krilo), Institute Ruđer Bošković Bijenička cesta 54 HR-10000 Zagreb Croatia |**Convener:** Adam Kardos

09:30–10:00

Unraveling New Physics at Future High Energy Colliders

Speaker

Janusz Gluza

10:00–10:30

Vector Boson Scattering at Muon Colliders

Speaker

Richard Ruiz

10:30–11:00

COFFEE BREAK

11:00–11:30

Z-boson decay at the NNNLO level.

Speaker

Krzysztof Grzanka

11:30–12:00

Anti-k_T jet function at next-to-next-to-leading order

Speaker

S. Moch

12:00