

CONFERENCE PROGRAMME

Wednesday, 15 September 2021

13:45 — 16:00 Morning session

13:45 — Janusz Gluza, *MTTD 2021 — opening*14:00 — German Rodrigo, *The future of particle physics — outreach talk*15:00 — Alex Keshavarzi, *First results from the Fermilab Muon g-2 experiment*15:30 — Robert Szafron, *Theoretical uncertainties due to missing higher orders in perturbative computations*

16:30 — 18:30 Afternoon session

16:30 — Rabindra Mohapatra, *Baryogenesis and neutron–anti-neutron oscillation*17:00 — Biswajit Karmakar, *A minimal flavor model for neutrino mass and leptogenesis*17:30 — Károly Seller, *Sterile neutrino dark matter in the super-weak extension of the Standard Model*18:00 — Simona Draukšas, *On the on-shell renormalization of fermion Masses, fields, and mixing matrices at 1-loop*

Thursday, 16 September 2021

11:00 — 13:00 Morning session

11:00 — Katharina Völk, *Theory input for $t\bar{t}j$ experimental analyses at the LHC*11:30 — Giuseppe Bevilacqua, *$ttbb$ at the LHC: On the size of corrections and b-jet definitions*12:00 — Gábor Somogyi, *Determination of α_S beyond NNLO using event shape averages*12:30 — Thomas Lenz, *Experimental input to the Standard Model prediction of $g-2$*

14:00 — 18:30 Afternoon session

14:00 — Aleksander Filip Źarnecki, *Sensitivity of future e^+e^- colliders to processes of dark matter production with light mediator exchange*14:30 — Norma Selomir Ramírez Uribe, *From causal representations of multiloop scattering amplitudes to quantum computing in the loop-tree duality*15:00 — Sam Van Thurenhou, *Renormalization of non-singlet quark operator matrix elements for off-forward hard scattering*15:30 — Andrzej Sióderek, *Novel approach to measure quark and gluon jets at the LHC*16:30 — Carlo Giunti, *Neutrino properties from coherent elastic Neutrino-Nucleus Scattering*17:00 — Timo Kärkkäinen, *Neutrino physics in gauged $U(1)$ extensions of the standard model*17:30 — Seweryn Kowalski, *New results from strong interactions program of NA61/SHINE*18:00 — Andrzej Czarnecki, *Phenomena in nontrivial background fields*

Friday, 17 September 2021

11:00 — 13:00 Morning session

11:00 — Joris Vergeest, *Lepton flavor symmetry in a three-Higgs doublet model*

11:30 — Wojciech Kotlarski, *FlexibleDecay: An automated calculator of scalar decay widths*

12:00 — Gábor Cynolter, *Unitarity in multi-Higgs production using Schwinger–Dyson equations*

12:30 — Vytautas Dūdėnas, *Low seesaw scale in the Grimus–Neufeld model*

14:00 — 18:40 Afternoon session

14:00 — Matthew McCullough, *Physics opportunities at future colliders*

14:30 — Joydeep Chakrabortty, *Can EFT be used to understand the nature of new physics?*

15:00 — Andrej Arbuzov, *Asymmetries in processes of electron–positron Annihilation*

15:30 — Adam Kardos, *W+charm production with massive c quarks in PowHel*

16:30 — Jose Wudka, *Flavor physics in di- and tri-lepton events from single-top production at the LHC*

17:00 — Martiros Khurshudyan, *Machine learning powered cosmology*

17:30 — Aleksandra Piórkowska-Kurpas, *Fundamental properties of Nature: new opportunities for testing in the age of multi-messenger astronomy*

18:00 — Anna Socha, *Higgs-boson induced reheating*

18:30 — Bartosz Dziewit, *Final remarks and goodbye*