

Session Program

30 mai 2022 à 3 juin 2022

Planck 2022

Parallel session 3

Ministry of research, Amphithéâtre Poincaré
25 rue de la Montagne Sainte Geneviève, 75005 Paris

lun. 30 mai

14:00

Parallel session 3: BSM phenomenology

Session | Site: L005 | Convener: Benjamin Fuks

14:00 – 14:20 **CP-Violating Invariants in the SMEFT**

Orateur

Emanuele Gendy Abd El Sayed

14:20 – 14:40 **A Green's Basis for the Bosonic SMEFT to Dimension 8**

Orateur

Álvaro Díaz Carmona

14:40 – 15:00 **Automatic generation of EFT operators**

Orateur

Renato Fonseca

15:00 – 15:20 **Form Factor Effects in Higgs Couplings**

Orateur

Pedro Bittar

15:20 – 15:40 **Multi-Higgs models with softly broken large discrete symmetry groups**

Orateur

Ivo de Medeiros Varzielas

15:40

16:10

Parallel session 3: BSM phenomenology

Session | Site: L005 | Convener: Pietro Slavich

16:10 – 16:30 **Fake GUT based on $SU(5) \times SU(3)$**

Orateur

Keiichi Watanabe

16:30 – 16:50 **$SU(6)$ gauge-Higgs grand unification**

Orateur

Andreas Bally

16:50 – 17:10 **Composite fermions in the Veneziano limit via holography**

Orateur

Michele Frigerio

17:10 – 17:30 **$SU(5)$ aGUT: a minimal asymptotic unification model**

Orateur

Aldo Deandrea

17:30 – 17:50 **TBA**

17:50

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14:00

Parallel session 3: BSM phenomenology

Session | Site: Amphithéâtre Poincaré | Convener: Michelle Frigerio

14:00 – 14:20 Chirally enhanced contributions to muon g-2 and related observables**Orateur**

Radovan Dermisek

14:20 – 14:40 Search for low-mass New Physics states at BABAR**Orateur**

Xinchou Lou

14:40 – 15:00 The muon g-2 anomaly confronts new physics in e^+e^- and $\mu^+\mu^-$ final states scattering**Orateur**

Giovanni Grilli di Cortona

15:00 – 15:20 Higgs-mass constraints on a supersymmetric solution of the muon g – 2 anomaly**Orateur**

Wenqi KE

15:20 – 15:40 Neutron Star Heating and the Muon g-2 Discrepancy**Orateur**

Maura Ramirez-Quezada

15:40

16:10

Parallel session 3: BSM phenomenology

Session | Site: Amphithéâtre Poincaré | Convener: Keisuke Harigaya

16:10 – 16:30 Generating the Weak Scale by Vector-like Quark Condensation**Orateur**

Sophie Klett

16:30 – 16:50 Gap-equations of radiative symmetry breaking in classically scale invariant models**Orateur**

Philipp Saake

16:50 – 17:10 Massless Preheating and Electroweak Vacuum Metastability**Orateur**

Jeff Kost

17:10 – 17:30 Naturalness and Hierarchy. Wilsonian and dimensional renormalization**Orateur**

Filippo Contino

17:30

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14:00

Parallel session 3: BSM phenomenology

Session | Site: L005 | Convener: Marcin Badziak

14:00 – 14:20 No channel left behind: revisiting V_h production at LHC, HL-LHC and FCC-hh

Orateur

Alejo Rossia

14:20 – 14:40 Four-top final states as a probe of Two-Higgs-Doublet models

Orateur

Steven Paasch

14:40 – 15:00 A 96 GeV Higgs Boson in the 2HDM plus Singlet

Orateur

Cheng Li

15:00 – 15:20

Multiply charged quasi-stable particles at Run-3 and High-Luminosity LHC. Prospects for the discovery.

Orateur

Rafał Masełek

15:20 – 15:40 The Present and Future of Four Top Operators

Orateur

Tobias Theil

15:40

16:10

Parallel session 3: BSM phenomenology

Session | Site: L005 | Convener: Aldo
Deandrea

16:10 – 16:30 QCD Axion Search with ILC Beam Facility

Orateur

Satoshi Shirai

16:30 – 16:50 Natural axion model from flavour

Orateur

Salvador Centelles Chuliá

16:50 – 17:10 LLPs from LSPs and the Muon $g-2$

Orateur

essodjolo kpatcha

17:10 – 17:30 Axion Decay and Chiral Anomalies

Orateur

Priyanka Lamba

17:30 – 17:50 Cosmology of Axion Rotation

Orateur

Keisuke Harigaya

17:50