



# 27th International Symposium on Particles, Strings and Cosmology

## Monday 25 July 2022

### Parallel Session C: BSM - Lindner Seminar Room (14:00 - 15:30)

-Conveners: Daniele Teresi

| time  | [id] title   | presenter                   |
|-------|--|-----------------------------|
| 14:00 | [110] Applying AdS/QCD methods to composite Higgs models   | LIU, Yang                   |
| 14:18 | [131] Minimal SU(6) Gauge-Higgs Grand Unification  | Dr ANGELESCU, Andrei        |
| 14:36 | [132] Evolution of coupling constants in SU(6) Gauge-Higgs Grand Unification                           | WEBER, Sascha               |
| 14:54 | [138] Technically Natural Higgs from Planck Scale  | JØRGENSEN, Martin Rosenlyst |
| 15:12 | [139] $Z_2$ Non-Restoration and Composite Higgs: Singlet-Assisted Baryogenesis w/o Topological Defects | TADA, Aika Marie            |

### Parallel Session C: BSM - Lindner Seminar Room (16:00 - 17:50)

-Conveners: Andreas Trautner

| time  | [id] title  | presenter                  |
|-------|---|----------------------------|
| 16:00 | [143] Using proton bremsstrahlung to explore light new physics: dark vectors, scalars, axions, neutrinos and millicharged particles | FOROUGH-ABARI, Saeid       |
| 16:18 | [64] Seesaw vector-like leptons for muon $g - 2$ , W boson mass, and dark matter  | Dr YAMASHITA, Kimiko       |
| 16:36 | [75] Oblique S and T parameters at one-loop level and heavy resonances  | ROSELL, Ignasi             |
| 16:54 | [162] The inverse seesaw family: Dirac and Majorana   | CENTELLES CHULIÁ, Salvador |
| 17:12 | [99] GW waves and the triple Higgs boson coupling in the 2HDM   | OLEA ROMACHO, Maria Olalla |

## Tuesday 26 July 2022

### Parallel Session C: Formal QFT - Lindner Seminar Room (11:00 - 12:30)

-Conveners: Gauthier Durieux

| time  | [id] title   | presenter                   |
|-------|--|-----------------------------|
| 11:00 | [146] Reconstruction of UV graviton amplitude from IR singularities                                      | TOKAREVA, Anna              |
| 11:18 | [149] The Asymptotically Safe Standard Model: From quantum gravity to dynamical chiral symmetry breaking | Mr PASTOR GUTIERREZ, Alvaro |
| 11:36 | [19] QED nuclear medium effects in neutrino-nucleus and electron-nucleus scattering                      | TOMALAK, Oleksandr          |
| 11:54 | [137] Adiabatic renormalization with an IR cut-off   | CONZINU, Pietro             |

### Parallel Session C: BSM - Lindner Seminar Room (14:00 - 15:30)

-Conveners: Florian Goertz

| time  | [id] title   | presenter     |
|-------|--|---------------|
| 14:00 | [154] Mapping the parameter space of low-scale leptogenesis  | KLARIC, Juraj |
| 14:18 | [22] Type II Seesaw Leptogenesis   | BARRIE, Neil  |
| 14:36 | [121] Electroweak Baryogenesis and Dark Matter with an Inert Doublet                                 | FABIAN, Sven  |
| 14:54 | [88] Domain walls seeding the electroweak phase transition in the singlet-scalar extension of the SM | BLASI, Simone |

### Parallel Session C: BSM - Lindner Seminar Room (16:00 - 17:30)

-Conveners: Robert Ziegler

| time  | [id] title  | presenter            |
|-------|---|----------------------|
| 16:00 | [155] Gegenbauer's Twin   | DURIEUX, Gauthier    |
| 16:18 | [51] Yukawa ratios and nucleon decay fingerprints in SU(5) GUTs           | HINZE, Kevin         |
| 16:36 | [94] $SO(10)$ : a Case for Hadron Colliders                               | ZANTEDESCHI, Michael |
| 16:54 | [79] More on Fake GUT   | WATANABE, Keiichi    |
| 17:12 | [76] Parker Bound and Monopole Production from Primordial Magnetic Fields | PERRI, Daniele       |

# Wednesday 27 July 2022

## Parallel Session C: Formal QFT - Lindner Seminar Room (11:00 - 13:00)

-Conveners: Michele Cicoli

| time  | [id] title  | presenter                         |
|-------|---|-----------------------------------|
| 11:00 | [52] How special are black holes? Correspondence with objects saturating unitarity bounds in generic theories | VALBUENA BERMÚDEZ, Juan Sebastián |
| 11:15 | [56] Black Hole-Saturnon Correspondence   | VALBUENA-BERMUDEZ, Juan           |
| 11:30 | [80] Multi-Field Oscillons  | VAN DISSEL, Fabio                 |
| 11:48 | [124] Background Field Method and Initial-Time Singularity for Coherent States                                | CINTIA, Giordano                  |
| 12:06 | [148] Kink-antikink scattering in a quantum vacuum  | ZAHARIADE, George                 |
| 12:24 | [150] One-loop Matching for Perturbative Unitary Theories   | GORBAHN, Martin                   |
| 12:42 | [189] Vortices in Black Holes   | ZANTEDESCHI, Michael              |