

# **First EuCAPT Annual Symposium**

## **Report of Contributions**

Contribution ID: 21

Type: **not specified**

## **Primordial fluctuations and their bootstrap**

*Wednesday, May 5, 2021 9:00 AM (30 minutes)*

### **Thematic area**

**Primary author:** PIMENTEL, Guilherme

**Presenter:** PIMENTEL, Guilherme

**Session Classification:** Early Universe

Contribution ID: 22

Type: **not specified**

## **Field-space surprises in multi-field preheating**

*Wednesday, May 5, 2021 10:00 AM (30 minutes)*

### **Thematic area**

**Primary author:** SFAKIANAKIS, Evangelos

**Presenter:** SFAKIANAKIS, Evangelos

**Session Classification:** Early Universe

Contribution ID: 23

Type: **Lightning Talk (PhD students and young postdocs)**

## **Simulating cosmological supercooling with a cold-atom system**

*Wednesday, May 5, 2021 9:30 AM (5 minutes)*

### **Thematic area**

**Presenter:** BROWN, Kate (Newcastle University)

**Session Classification:** Early Universe

Contribution ID: 24

Type: **not specified**

## **Cosmological phase transitions: an insight into the early universe**

*Wednesday, May 5, 2021 11:00 AM (30 minutes)*

### **Thematic area**

**Primary author:** CUTTING, Daniel

**Presenter:** CUTTING, Daniel

**Session Classification:** Early Universe

Contribution ID: 25

Type: **not specified**

## **Baryogenesis at the electroweak scale**

*Wednesday, May 5, 2021 11:30 AM (30 minutes)*

### **Thematic area**

**Primary author:** VON HARLING, Benedict

**Presenter:** VON HARLING, Benedict

**Session Classification:** Early Universe

Contribution ID: 26

Type: **not specified**

## **Brainstorming: Future of EuCAPT**

*Wednesday, May 5, 2021 12:00 PM (30 minutes)*

### **Thematic area**

**Primary author:** BERTONE, Gianfranco

**Presenter:** BERTONE, Gianfranco

**Session Classification:** Brainstorming

Contribution ID: 27

Type: **not specified**

## **BSM searches in neutrino experiments**

*Wednesday, May 5, 2021 2:00 PM (30 minutes)*

### **Thematic area**

**Primary author:** COLOMA, Pilar

**Presenter:** COLOMA, Pilar

**Session Classification:** Low-Energy Neutrinos



Contribution ID: 28

Type: **Lightning Talk (PhD students and young postdocs)**

## **Astrophysical constraints on nonstandard coherent neutrino-nucleus scattering**

*Wednesday, May 5, 2021 2:35 PM (5 minutes)*

### **Thematic area**

**Presenter:** SULIGA, Anna M. (Niels Bohr Institute)

**Session Classification:** Low-Energy Neutrinos

Contribution ID: 29

Type: **not specified**

## **Precision measurements in neutrino experiments**

*Wednesday, May 5, 2021 3:00 PM (30 minutes)*

### **Thematic area**

**Primary author:** ESTEBAN, Ivan

**Presenter:** ESTEBAN, Ivan

**Session Classification:** Low-Energy Neutrinos

Contribution ID: **30**

Type: **not specified**

## **Supernova neutrinos in the Standard Model**

*Wednesday, May 5, 2021 3:30 PM (30 minutes)*

### **Thematic area**

**Primary author:** CAPOZZI, Francesco

**Presenter:** CAPOZZI, Francesco

**Session Classification:** Low-Energy Neutrinos

Contribution ID: 31

Type: **not specified**

## **BSM searches with supernova neutrinos**

*Wednesday, May 5, 2021 4:00 PM (30 minutes)*

### **Thematic area**

**Primary author:** SEN, Manibrata

**Presenter:** SEN, Manibrata

**Session Classification:** Low-Energy Neutrinos

Contribution ID: 32

Type: **not specified**

## **Brainstorming: EuCAPT White Paper**

*Wednesday, May 5, 2021 5:00 PM (15 minutes)*

### **Thematic area**

**Primary author:** RIOTTO, Antonio

**Presenter:** RIOTTO, Antonio

**Session Classification:** Brainstorming

Contribution ID: 33

Type: **not specified**

## **Parallel sessions on EuCAPT White Paper**

*Wednesday, May 5, 2021 5:15 PM (1h 15m)*

**Session Classification:** Brainstorming

Contribution ID: 34

Type: **not specified**

## **Model building aspects of dark matter**

*Thursday, May 6, 2021 9:00 AM (30 minutes)*

### **Thematic area**

**Primary author:** AGRAWAL, Prateek

**Presenter:** AGRAWAL, Prateek

**Session Classification:** Dark Matter

Contribution ID: 35

Type: **Lightning Talk (PhD students and young postdocs)**

## **Charting the fifth force landscape**

*Thursday, May 6, 2021 9:40 AM (5 minutes)*

### **Thematic area**

**Presenter:** BANKS, Hannah (University of Cambridge)

**Session Classification:** Dark Matter



Contribution ID: 36

Type: **not specified**

## **New directions in direct detection of dark matter**

*Thursday, May 6, 2021 10:00 AM (30 minutes)*

### **Thematic area**

**Primary author:** HOCHBERG, Yonit

**Presenter:** HOCHBERG, Yonit

**Session Classification:** Dark Matter

Contribution ID: 37

Type: **not specified**

## **Indirect probes of dark matter**

*Thursday, May 6, 2021 11:00 AM (30 minutes)*

### **Thematic area**

**Primary author:** KAVANAGH, Bradley

**Presenter:** KAVANAGH, Bradley

**Session Classification:** Dark Matter

Contribution ID: 38

Type: **Lightning Talk (PhD students and young postdocs)**

## **Primordial black holes from confinement**

*Thursday, May 6, 2021 11:35 AM (5 minutes)*

### **Thematic area**

**Primary author:** ZANTEDESCHI, Michael

**Presenter:** ZANTEDESCHI, Michael

**Session Classification:** Dark Matter

Contribution ID: 39

Type: **not specified**

## **CMB, LSS and the distance ladder: cosmic discordance?**

*Thursday, May 6, 2021 12:00 PM (30 minutes)*

**Thematic area**

**Presenter:** POULIN, Vivian

**Session Classification:** CMB and Late Universe

Contribution ID: 40

Type: **not specified**

## **Cosmology from galaxy redshift surveys: current results and future prospects**

*Thursday, May 6, 2021 2:00 PM (30 minutes)*

### **Thematic area**

**Primary author:** GIL-MARÍN, Hector

**Presenter:** GIL-MARÍN, Hector

**Session Classification:** CMB and Late Universe

Contribution ID: 41

Type: **Lightning Talk (PhD students and young postdocs)**

## **The role of CMB spectral distortions in the Hubble tension**

*Thursday, May 6, 2021 2:30 PM (5 minutes)*

### **Thematic area**

**Primary author:** LUCCA, Matteo (IDP - ULB (Universite libre de Bruxelles))

**Presenter:** LUCCA, Matteo (IDP - ULB (Universite libre de Bruxelles))

**Session Classification:** CMB and Late Universe

Contribution ID: 42

Type: **not specified**

## **Recent progress in theory of large-scale structure**

*Thursday, May 6, 2021 3:00 PM (30 minutes)*

### **Thematic area**

**Primary author:** VLAH, Zvonimir

**Presenter:** VLAH, Zvonimir

**Session Classification:** CMB and Late Universe

Contribution ID: 43

Type: **not specified**

## **Cosmology from reionization and cosmic dawn**

*Thursday, May 6, 2021 3:30 PM (30 minutes)*

### **Thematic area**

**Primary author:** MUÑOZ, Julian

**Presenter:** MUÑOZ, Julian

**Session Classification:** CMB and Late Universe



Contribution ID: 44

Type: **not specified**

## **Probing subatomic physics with GWs from neutron star binary systems**

*Thursday, May 6, 2021 4:30 PM (30 minutes)*

### **Thematic area**

**Primary author:** HINDERER, Tanja

**Presenter:** HINDERER, Tanja

**Session Classification:** GWs and Compact Objects

Contribution ID: 45

Type: **Lightning Talk (PhD students and young postdocs)**

## **Cosmology with LIGO/Virgo dark sirens and galaxy catalogs**

*Thursday, May 6, 2021 5:00 PM (5 minutes)*

### **Thematic area**

**Primary author:** IACOVELLI, Francesco (Université de Genève)

**Presenter:** IACOVELLI, Francesco (Université de Genève)

**Session Classification:** GWs and Compact Objects

Contribution ID: 46

Type: **not specified**

## **Stochastic GW backgrounds from astrophysical sources**

*Thursday, May 6, 2021 5:30 PM (30 minutes)*

### **Thematic area**

**Primary author:** DVORKIN, Irina

**Presenter:** DVORKIN, Irina

**Session Classification:** GWs and Compact Objects

Contribution ID: 47

Type: **not specified**

## **What can numerical relativity do for dark matter particle physics?**

*Thursday, May 6, 2021 6:00 PM (30 minutes)*

### **Thematic area**

**Primary author:** CLOUGH, Katy

**Presenter:** CLOUGH, Katy

**Session Classification:** GWs and Compact Objects

Contribution ID: 48

Type: **not specified**

## **Binary black holes and scattering amplitudes**

*Thursday, May 6, 2021 6:30 PM (30 minutes)*

### **Thematic area**

**Primary author:** SOLON, Mikhail

**Presenter:** SOLON, Mikhail

**Session Classification:** GWs and Compact Objects

Contribution ID: 49

Type: **not specified**

## **Going further with high-energy multi-messenger astronomy**

*Friday, May 7, 2021 9:30 AM (30 minutes)*

**Thematic area**

**Primary author:** KOTERA, Kumiko

**Presenter:** KOTERA, Kumiko

**Session Classification:** High-Energy Astroparticle Physics

Contribution ID: 50

Type: **Lightning Talk (PhD students and young postdocs)**

## **Are UHECRs strongly deflected by the intergalactic medium?**

*Friday, May 7, 2021 10:00 AM (5 minutes)*

### **Thematic area**

**Presenter:** SOKOLENKO, Anastasia (HEPHY)

**Session Classification:** High-Energy Astroparticle Physics

Contribution ID: 51

Type: **not specified**

# High-energy and ultra-high-energy cosmic neutrinos

*Friday, May 7, 2021 11:00 AM (30 minutes)*

## Thematic area

**Primary author:** BUSTAMANTE, Mauricio

**Presenter:** BUSTAMANTE, Mauricio

**Session Classification:** High-Energy Astroparticle Physics



Contribution ID: 52

Type: **not specified**

## **Particle acceleration in AGN jets**

*Friday, May 7, 2021 11:30 AM (30 minutes)*

### **Thematic area**

**Primary author:** MATTHEWS, James

**Presenter:** MATTHEWS, James

**Session Classification:** High-Energy Astroparticle Physics

Contribution ID: 53

Type: **not specified**

## **The origin of the ultra-high energy cosmic rays**

*Friday, May 7, 2021 12:00 PM (30 minutes)*

### **Thematic area**

**Primary author:** LANG, Rodrigo

**Presenter:** LANG, Rodrigo

**Session Classification:** High-Energy Astroparticle Physics

Contribution ID: 54

Type: **not specified**

## Early Universe: Outlook

*Friday, May 7, 2021 2:00 PM (30 minutes)*

### **Thematic area**

**Primary author:** SERVANT, Geraldine

**Presenter:** SERVANT, Geraldine

**Session Classification:** Early Universe

Contribution ID: 55

Type: **not specified**

## **Low-Energy Neutrinos: Outlook**

*Friday, May 7, 2021 2:30 PM (30 minutes)*

### **Thematic area**

**Primary author:** LINDNER, Manfred

**Presenter:** LINDNER, Manfred

**Session Classification:** Low-Energy Neutrinos

Contribution ID: 56

Type: **not specified**

## **Dark Matter: Outlook**

*Friday, May 7, 2021 4:30 PM (30 minutes)*

### **Thematic area**

**Primary author:** CIRELLI, Marco

**Presenter:** CIRELLI, Marco

**Session Classification:** Dark Matter

Contribution ID: 57

Type: **not specified**

## **CMB and Late Universe: Outlook**

*Friday, May 7, 2021 3:30 PM (30 minutes)*

### **Thematic area**

**Primary author:** LESGOURGUES, Julien

**Presenter:** LESGOURGUES, Julien

**Session Classification:** CMB and Late Universe

Contribution ID: 58

Type: **not specified**

## **GWs and Compact Objects: Outlook**

*Friday, May 7, 2021 3:00 PM (30 minutes)*

### **Thematic area**

**Primary author:** BUONANNO, Alessandra

**Presenter:** BUONANNO, Alessandra

**Session Classification:** GWs and Compact Objects

Contribution ID: 59

Type: **not specified**

## **High-Energy Astroparticle Physics: Outlook**

*Friday, May 7, 2021 5:00 PM (30 minutes)*

### **Thematic area**

**Primary author:** AMATO, Elena

**Presenter:** AMATO, Elena

**Session Classification:** High-Energy Astroparticle Physics



Contribution ID: 269

Type: **Lightning Talk (PhD students and young postdocs)**

## **Oscillons in multi-field theories**

*Wednesday, May 5, 2021 9:35 AM (5 minutes)*

### **Thematic area**

**Presenter:** VAN DISSEL, Fabio (IFAE)

**Session Classification:** Early Universe

Contribution ID: 270

Type: **Lightning Talk (PhD students and young postdocs)**

## **Cosmological phase transition of composite Higgs confinement**

*Wednesday, May 5, 2021 9:55 AM (5 minutes)*

### **Thematic area**

**Presenter:** EKHTERACHIAN, Majid (University of Maryland College Park)

**Session Classification:** Early Universe

Contribution ID: 271

Type: **Lightning Talk (PhD students and young postdocs)**

## **String fragmentation in supercooled confinement and implications for dark matter**

*Wednesday, May 5, 2021 9:40 AM (5 minutes)*

### **Thematic area**

**Presenter:** GOUTTENOIRE, Yann (Deutsches Elektronen-Synchrotron DESY)

**Session Classification:** Early Universe

Contribution ID: 272

Type: **Lightning Talk (PhD students and young postdocs)**

## **Uniting low-scale leptogeneses**

*Wednesday, May 5, 2021 9:45 AM (5 minutes)*

### **Thematic area**

**Presenter:** KLARIC, Juraj (EPFL - Ecole Polytechnique Federale Lausanne (CH))

**Session Classification:** Early Universe

Contribution ID: 273

Type: **not specified**

## **Probing the inflationary particle content with primordial non-Gaussianities**

*Wednesday, May 5, 2021 9:50 AM (5 minutes)*

**Thematic area**

**Presenter:** PINOL, Lucas

**Session Classification:** Early Universe

Contribution ID: 274

Type: **not specified**

## **Radiative corrections in neutrino physics**

*Wednesday, May 5, 2021 2:40 PM (5 minutes)*

### **Thematic area**

**Presenter:** TOMALAK, Oleksandr (University of Kentucky)

**Session Classification:** Low-Energy Neutrinos

Contribution ID: 275

Type: **Lightning Talk (PhD students and young postdocs)**

## **Neutrino flavor conversions in the remnants of binary neutron star mergers**

*Wednesday, May 5, 2021 2:30 PM (5 minutes)*

**Thematic area**

**Presenter:** PADILLA-GAY, Ian (University of Copenhagen - Niels Bohr Institute)

**Session Classification:** Low-Energy Neutrinos

Contribution ID: 276

Type: **Lightning Talk (PhD students and young postdocs)**

## **Signatures of ultralight scalars in neutrino oscillation experiments**

*Wednesday, May 5, 2021 2:45 PM (5 minutes)*

### **Thematic area**

**Presenter:** MARTÍNEZ-MIRAVÉ, Pablo

**Session Classification:** Low-Energy Neutrinos



Contribution ID: 277

Type: **Lightning Talk (PhD students and young postdocs)**

## **The singly-charged scalar singlet as the origin of neutrino masses**

*Wednesday, May 5, 2021 2:50 PM (5 minutes)*

### **Thematic area**

**Presenter:** FELKL, Tobias (University of New South Wales)

**Session Classification:** Low-Energy Neutrinos

Contribution ID: 278

Type: **Lightning Talk (PhD students and young postdocs)**

## **Constraints on neutrino electromagnetic properties from COHERENT elastic neutrino-nucleus scattering**

*Wednesday, May 5, 2021 2:55 PM (5 minutes)*

### **Thematic area**

**Presenter:** ZHANG, Yiyu (Institute of High Energy Physics)

**Session Classification:** Low-Energy Neutrinos

Contribution ID: 279

Type: **Lightning Talk (PhD students and young postdocs)**

## **Degeneracy, dwarfs and (fermionic) dark matter**

*Thursday, May 6, 2021 9:35 AM (5 minutes)*

### **Thematic area**

**Presenter:** ALVEY, James (King's College London)

**Session Classification:** Dark Matter

Contribution ID: 280

Type: **Lightning Talk (PhD students and young postdocs)**

## **Celestial-body focused dark matter annihilation throughout the galaxy**

*Thursday, May 6, 2021 9:30 AM (5 minutes)*

### **Thematic area**

**Primary author:** MUKHOPADHYAY, Payel (Stanford University)

**Presenter:** MUKHOPADHYAY, Payel (Stanford University)

**Session Classification:** Dark Matter

Contribution ID: 281

Type: **Lightning Talk (PhD students and young postdocs)**

## **Non-cold dark matter from primordial black hole evaporation**

*Thursday, May 6, 2021 9:45 AM (5 minutes)*

### **Thematic area**

**Primary author:** DECANT, Quentin (Université Libre de Bruxelles)

**Presenter:** DECANT, Quentin (Université Libre de Bruxelles)

**Session Classification:** Dark Matter

Contribution ID: 282

Type: **Lightning Talk (PhD students and young postdocs)**

## **An attractive scenario for light dark matter direct detection**

*Thursday, May 6, 2021 9:50 AM (5 minutes)*

### **Thematic area**

**Primary author:** GEHRLEIN, Julia

**Presenter:** GEHRLEIN, Julia

**Session Classification:** Dark Matter

Contribution ID: 283

Type: **Lightning Talk (PhD students and young postdocs)**

## **Constraining the diffuse supernova axion-like-particle background with high-latitude Fermi data**

*Thursday, May 6, 2021 9:55 AM (5 minutes)*

### **Thematic area**

**Primary author:** ECKNER, Christopher (CNRS)

**Presenter:** ECKNER, Christopher (CNRS)

**Session Classification:** Dark Matter

Contribution ID: 284

Type: **Lightning Talk (PhD students and young postdocs)**

## **Constraints on the distance duality relation with standard sirens**

*Thursday, May 6, 2021 2:35 PM (5 minutes)*

### **Thematic area**

**Primary author:** HOGG, Natalie

**Presenter:** HOGG, Natalie

**Session Classification:** CMB and Late Universe



Contribution ID: 285

Type: **Lightning Talk (PhD students and young postdocs)**

## **Cosmology with UV galaxy luminosity functions**

*Thursday, May 6, 2021 2:40 PM (5 minutes)*

**Thematic area**

**Presenter:** SABTI, Nashwan

**Session Classification:** CMB and Late Universe

Contribution ID: 286

Type: **Lightning Talk (PhD students and young postdocs)**

## **Tracing large scale structures with gravitational waves**

*Thursday, May 6, 2021 2:45 PM (5 minutes)*

### **Thematic area**

**Primary author:** LIBANORE, Sarah (Università degli Studi di Padova)

**Presenter:** LIBANORE, Sarah (Università degli Studi di Padova)

**Session Classification:** CMB and Late Universe

Contribution ID: 287

Type: **Lightning Talk (PhD students and young postdocs)**

## **Easing the $\sigma_8$ -tension with neutrino-dark matter interactions**

*Thursday, May 6, 2021 2:50 PM (5 minutes)*

### **Thematic area**

**Primary author:** MOSBECH, Markus (The University of Sydney)

**Presenter:** MOSBECH, Markus (The University of Sydney)

**Session Classification:** CMB and Late Universe

Contribution ID: 288

Type: **Lightning Talk (PhD students and young postdocs)**

## **Constraining neutrino masses with clustering in harmonic space via multi-tracing**

*Thursday, May 6, 2021 2:55 PM (5 minutes)*

### **Thematic area**

**Primary author:** TANIDIS, Konstantinos (Central European Institute for Cosmology and Fundamental Physics (CEICO))

**Presenter:** TANIDIS, Konstantinos (Central European Institute for Cosmology and Fundamental Physics (CEICO))

**Session Classification:** CMB and Late Universe

Contribution ID: 289

Type: **Lightning Talk (PhD students and young postdocs)**

## **Nonlinear curvature effects in gravitational waves from black hole binaries**

*Thursday, May 6, 2021 5:05 PM (5 minutes)*

### **Thematic area**

**Primary author:** SHIRALLOU, Banafsheh (University of Amsterdam)

**Presenter:** SHIRALLOU, Banafsheh (University of Amsterdam)

**Session Classification:** GWs and Compact Objects

Contribution ID: 290

Type: **Lightning Talk (PhD students and young postdocs)**

## **Probing the standard cosmological model with the population of binary black holes**

*Thursday, May 6, 2021 5:10 PM (5 minutes)*

### **Thematic area**

**Primary author:** EZQUIAGA, Jose Maria (University of Chicago)

**Presenter:** EZQUIAGA, Jose Maria (University of Chicago)

**Session Classification:** GWs and Compact Objects

Contribution ID: 291

Type: **Lightning Talk (PhD students and young postdocs)**

## **Primordial black holes and how to produce them**

*Thursday, May 6, 2021 5:15 PM (5 minutes)*

### **Thematic area**

**Primary author:** COLE, Pippa

**Presenter:** COLE, Pippa

**Session Classification:** GWs and Compact Objects

Contribution ID: 292

Type: **Lightning Talk (PhD students and young postdocs)**

## **Chasing the progenitors of merging binary black holes**

*Thursday, May 6, 2021 5:20 PM (5 minutes)*

**Thematic area**

**Presenter:** SCELFO, Giulio (SISSA)

**Session Classification:** GWs and Compact Objects



Contribution ID: 293

Type: **Lightning Talk (PhD students and young postdocs)**

## **Polarization distortions of lensed gravitational waves**

*Thursday, May 6, 2021 5:25 PM (5 minutes)*

### **Thematic area**

**Presenter:** DALANG, Charles (Université de Genève)

**Session Classification:** GWs and Compact Objects

Contribution ID: 294

Type: **Lightning Talk (PhD students and young postdocs)**

## **Unveiling the origin of steep decay in $\gamma$ -ray bursts**

*Friday, May 7, 2021 10:05 AM (5 minutes)*

### **Thematic area**

**Primary author:** RONCHINI, Samuele (Gran Sasso Science Institute)

**Presenter:** RONCHINI, Samuele (Gran Sasso Science Institute)

**Session Classification:** High-Energy Astroparticle Physics

Contribution ID: 295

Type: **Lightning Talk (PhD students and young postdocs)**

## **Implications of Li to O data of AMS-02 on our understanding cosmic-ray diffusion**

*Friday, May 7, 2021 10:10 AM (5 minutes)*

### **Thematic area**

**Primary author:** KORSMEIER, Michael (Stockholm University and OKC)

**Presenter:** KORSMEIER, Michael (Stockholm University and OKC)

**Session Classification:** High-Energy Astroparticle Physics

Contribution ID: 296

Type: **Lightning Talk (PhD students and young postdocs)**

## **Multi-wavelength probes of the Fermi GeV excess**

*Friday, May 7, 2021 10:15 AM (5 minutes)*

### **Thematic area**

**Primary author:** BERTEAUD, Joanna (CNRS)

**Presenter:** BERTEAUD, Joanna (CNRS)

**Session Classification:** High-Energy Astroparticle Physics

Contribution ID: 297

Type: **Lightning Talk (PhD students and young postdocs)**

## **Starburst galaxies as important high-energy neutrino factories**

*Friday, May 7, 2021 10:20 AM (5 minutes)*

### **Thematic area**

**Primary author:** AMBROSONE, Antonio (University of Naples Federico II and Istituto Nazionale di Fisica Nucleare (INFN) sezione di Napoli)

**Presenter:** AMBROSONE, Antonio (University of Naples Federico II and Istituto Nazionale di Fisica Nucleare (INFN) sezione di Napoli)

**Session Classification:** High-Energy Astroparticle Physics

Contribution ID: 298

Type: **Lightning Talk (PhD students and young postdocs)**

## **Particle acceleration in black-hole magnetospheres**

*Friday, May 7, 2021 10:25 AM (5 minutes)*

### **Thematic area**

**Primary author:** CRINQUAND, Benjamin (University Grenoble Alpes - UGA)

**Presenter:** CRINQUAND, Benjamin (University Grenoble Alpes - UGA)

**Session Classification:** High-Energy Astroparticle Physics

Contribution ID: 299

Type: **not specified**

## Welcome address

*Wednesday, May 5, 2021 8:50 AM (10 minutes)*

### Thematic area

**Presenter:** MNICH, GIAN GIUDICE, Joachim (CERN)

**Session Classification:** Welcome

Contribution ID: 300

Type: **Lightning Talk (PhD students and young postdocs)**

## **Freezing in with lepton flavored fermions**

*Thursday, May 6, 2021 11:30 AM (5 minutes)*

### **Thematic area**

**Primary author:** CHATTERJEE, Shiuli (Indian Institute of Science)

**Presenter:** CHATTERJEE, Shiuli (Indian Institute of Science)

**Session Classification:** Dark Matter



Contribution ID: 301

Type: **Lightning Talk (PhD students and young postdocs)**

## **Reconstruction of the neutrino mass as a function of redshift**

*Thursday, May 6, 2021 11:55 AM (5 minutes)*

### **Thematic area**

**Primary author:** LORENZ, Christiane

**Presenter:** LORENZ, Christiane

**Session Classification:** CMB and Late Universe

Contribution ID: 302

Type: **Lightning Talk (PhD students and young postdocs)**

## **Evaluating cosmic coincidences**

*Thursday, May 6, 2021 11:40 AM (5 minutes)*

### **Thematic area**

**Primary author:** CAPEL, Francesca (Technische Universität München)

**Presenter:** CAPEL, Francesca (Technische Universität München)

**Session Classification:** High-Energy Astroparticle Physics

Contribution ID: 303

Type: **Lightning Talk (PhD students and young postdocs)**

## **Post-Minkowskian Feynman integrals**

*Thursday, May 6, 2021 11:45 AM (5 minutes)*

### **Thematic area**

**Primary author:** LIU, Zhengwen (DESY)

**Presenter:** LIU, Zhengwen (DESY)

**Session Classification:** GWs and Compact Objects

Contribution ID: 304

Type: **Lightning Talk (PhD students and young postdocs)**

## **No free diffusion during inflation without overproducing primordial black holes**

*Thursday, May 6, 2021 11:50 AM (5 minutes)*

### **Thematic area**

**Primary author:** WILKINS, Ashley (Newcastle University)

**Presenter:** WILKINS, Ashley (Newcastle University)

**Session Classification:** Early Universe