

**Galileo Galilei Institute  
Conference: Collider Physics  
and the Cosmos**

**Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Workshop Report "Colliders Physics and the Early Universe"

*Wednesday, October 11, 2017 9:15 AM (45 minutes)*

**Primary author:** COVI, Laura

**Presenter:** COVI, Laura

**Session Classification:** Colliders and the Early Universe

Contribution ID: 2

Type: **not specified**

## **Recent ALICE results and future perspectives for the role of heavy ion collisions in the understanding of the early universe**

*Wednesday, October 11, 2017 10:10 AM (45 minutes)*

**Presenter:** MISCHKE, Andre (Utrecht University (NL))

**Session Classification:** Colliders and the Early Universe

Contribution ID: 3

Type: **not specified**

## Leptogenesis and colliders

*Wednesday, October 11, 2017 11:05 AM (45 minutes)*

**Presenter:** DREWES, Marco

**Session Classification:** Colliders and the Early Universe

Contribution ID: 4

Type: **not specified**

## **Visit of the Church and Cloisters of Santa Maria Novella**

Contribution ID: 5

Type: **not specified**

## **The Church of Santa Maria Novella: Devotion, Art and Astronomy in a Florentine Church**

*Wednesday, October 11, 2017 12:00 PM (30 minutes)*

Contribution ID: 6

Type: **not specified**

## Workshop Report "Higgs and the Cosmos"

*Tuesday, October 10, 2017 9:15 AM (45 minutes)*

**Primary author:** DJOUADI, Abdelhak (Universite de Paris-Sud 11 (FR))

**Presenter:** DJOUADI, Abdelhak (Universite de Paris-Sud 11 (FR))

**Session Classification:** Higgs

Contribution ID: 7

Type: **not specified**

# Higgs Boson Decay and Production at Hadron Colliders

*Tuesday, October 10, 2017 5:15 PM (45 minutes)*

**Primary author:** SPIRA, Michael

**Presenter:** SPIRA, Michael

**Session Classification:** Higgs



Contribution ID: 8

Type: **not specified**

## **Heavy neutrinos meet the triple Higgs coupling**

*Tuesday, October 10, 2017 10:05 AM (40 minutes)*

**Primary author:** BAGLIO, Julien

**Presenter:** BAGLIO, Julien

**Session Classification:** Higgs

Contribution ID: 9

Type: **not specified**

## **Electroweak phase transition and Higgs self-coupling measurement**

*Tuesday, October 10, 2017 10:50 AM (25 minutes)*

**Primary author:** LEE, Seung J. (KAIST)

**Presenter:** LEE, Seung J. (KAIST)

**Session Classification:** Higgs

Contribution ID: **10**

Type: **not specified**

## **Higgs and Inflation**

*Tuesday, October 10, 2017 1:45 PM (30 minutes)*

**Primary author:** BEZRUKOV, Fedor

**Presenter:** BEZRUKOV, Fedor

**Session Classification:** Higgs

Contribution ID: 11

Type: **not specified**

# **Inflation, Spontaneous Generation of the Planck Mass and Weyl Symmetry**

*Tuesday, October 10, 2017 2:25 PM (40 minutes)*

**Primary author:** HILL, Christopher T. (FNAL)

**Presenter:** HILL, Christopher T. (FNAL)

**Session Classification:** Higgs

Contribution ID: 12

Type: **not specified**

## Higgs and Vacuum Stability

*Tuesday, October 10, 2017 3:15 PM (45 minutes)*

**Primary author:** STRUMIA, Alessandro (Pisa)

**Presenter:** STRUMIA, Alessandro (Pisa)

**Session Classification:** Higgs

Contribution ID: 13

Type: **not specified**

## **Fine tuning - SUSY after Higgs**

*Tuesday, October 10, 2017 4:30 PM (40 minutes)*

**Primary author:** ROSS, Graham Garland

**Presenter:** ROSS, Graham Garland

**Session Classification:** Higgs

Contribution ID: 14

Type: **not specified**

## Composite Higgs models

*Tuesday, October 10, 2017 11:20 AM (40 minutes)*

**Primary author:** SANNINO, francesco (CP3-Origins)

**Presenter:** SANNINO, francesco (CP3-Origins)

**Session Classification:** Higgs

Contribution ID: 15

Type: **not specified**

## Workshop Report "Colliders and Cosmic Rays"

*Friday, October 13, 2017 9:20 AM (45 minutes)*

**Primary author:** LIPARI, Paolo (Universita e INFN, Roma I (IT))

**Presenter:** LIPARI, Paolo (Universita e INFN, Roma I (IT))

**Session Classification:** Dark Matter



Contribution ID: 16

Type: **not specified**

## **Astrophysical signals of Dark Matter**

*Friday, October 13, 2017 10:15 AM (30 minutes)*

**Presenter:** FORNENGO, Nicolao (University of Torino and INFN)

**Session Classification:** Dark Matter

Contribution ID: 17

Type: **not specified**

## **Cosmic rays and anti-helium as probes of Dark Matter**

*Friday, October 13, 2017 10:50 AM (30 minutes)*

**Primary author:** BLUM, Kfir (CERN)

**Presenter:** BLUM, Kfir (CERN)

**Session Classification:** Dark Matter

Contribution ID: **18**

Type: **not specified**

## **Probing particle transport in the Galaxy with gamma rays**

*Friday, October 13, 2017 11:25 AM (30 minutes)*

**Primary author:** GRASSO, Dario (INFN)

**Presenter:** GRASSO, Dario (INFN)

**Session Classification:** Dark Matter

Contribution ID: **19**

Type: **not specified**

## **Searches for dark sector models at LHC**

*Friday, October 13, 2017 2:00 PM (30 minutes)*

**Primary author:** VARTAK, Adish (Univ. of California San Diego (US))

**Presenter:** VARTAK, Adish (Univ. of California San Diego (US))

**Session Classification:** Dark Matter

Contribution ID: 20

Type: **not specified**

## **Dark sector physics search in missing energy events with the NA64 experiment**

*Friday, October 13, 2017 2:40 PM (30 minutes)*

**Primary author:** RADICS, Balint (KFKI RMKI)

**Presenter:** RADICS, Balint (KFKI RMKI)

**Session Classification:** Dark Matter

Contribution ID: 21

Type: **not specified**

## Workshop Report "Dark Matter and Colliders"

*Thursday, October 12, 2017 9:15 AM (45 minutes)*

**Primary author:** GOUDELIS, Andreas (LPTHE Paris)

**Presenter:** GOUDELIS, Andreas (LPTHE Paris)

**Session Classification:** Dark Matter

Contribution ID: 22

Type: **not specified**

## **Axion phenomenology**

*Thursday, October 12, 2017 10:10 AM (30 minutes)*

**Primary author:** VILLADORO, Giovanni (Abdus Salam Int. Cent. Theor. Phys. (IT))

**Presenter:** VILLADORO, Giovanni (Abdus Salam Int. Cent. Theor. Phys. (IT))

**Session Classification:** Dark Matter

Contribution ID: 23

Type: **not specified**

## Searches for axions at CAST

*Thursday, October 12, 2017 10:50 AM (20 minutes)*

**Primary author:** KARUZA, Marin (Universita e INFN Trieste (IT))

**Presenter:** KARUZA, Marin (Universita e INFN Trieste (IT))

**Session Classification:** Dark Matter



Contribution ID: 24

Type: **not specified**

## Results from HPS e Perspectives with BDX

*Thursday, October 12, 2017 11:20 AM (35 minutes)*

**Primary author:** D'URSO, Domenico (Universita e INFN, Perugia (IT))

**Presenter:** D'URSO, Domenico (Universita e INFN, Perugia (IT))

**Session Classification:** Dark Matter

Contribution ID: 25

Type: **not specified**

## Searches for DM mediators

*Thursday, October 12, 2017 12:05 PM (35 minutes)*

**Primary author:** SANTANASTASIO, Francesco (Sapienza Universita e INFN, Roma I (IT))

**Presenter:** SANTANASTASIO, Francesco (Sapienza Universita e INFN, Roma I (IT))

**Session Classification:** Dark Matter

Contribution ID: 26

Type: **not specified**

## **WIMP DM interpretation of Higgs results**

*Thursday, October 12, 2017 2:00 PM (35 minutes)*

**Primary author:** WANG, Renjie (LPNHE and Institut Lagrange de Paris - ILP (FR))

**Presenter:** WANG, Renjie (LPNHE and Institut Lagrange de Paris - ILP (FR))

**Session Classification:** Dark Matter

Contribution ID: 27

Type: **not specified**

## **WIMP DM interpretation of SUSY and Exotics results**

*Thursday, October 12, 2017 2:45 PM (35 minutes)*

**Primary author:** SCHOUWENBERG, Jeroen (Nikhef National institute for subatomic physics (NL))

**Presenter:** SCHOUWENBERG, Jeroen (Nikhef National institute for subatomic physics (NL))

**Session Classification:** Dark Matter

Contribution ID: 28

Type: **not specified**

## **The MSSM and the LHC and Dark Matter constraints**

*Thursday, October 12, 2017 3:30 PM (40 minutes)*

**Primary author:** ARBEY, Alexandre (Lyon U. & CERN TH)

**Presenter:** ARBEY, Alexandre (Lyon U. & CERN TH)

**Session Classification:** Dark Matter

Contribution ID: 29

Type: **not specified**

## **Statistical analysis of the MSSM after the LHC 13 TeV data with Mastercode**

*Thursday, October 12, 2017 4:40 PM (40 minutes)*

**Primary author:** BUCHMUELLER, Oliver (Imperial College (GB))

**Presenter:** BUCHMUELLER, Oliver (Imperial College (GB))

**Session Classification:** Dark Matter

Contribution ID: 30

Type: **not specified**

## **From High Scale SUSY to freeze-in scenarios: new insights on alternative dark matter scenarios**

**Primary author:** MAMBRINI, Yann

**Presenter:** MAMBRINI, Yann

**Session Classification:** Dark Matter

Contribution ID: 31

Type: **not specified**

## **Perspectives for direct DM searches with LZ**

*Thursday, October 12, 2017 5:30 PM (30 minutes)*

**Primary author:** VAN DER GRINTEN, Maurits

**Presenter:** VAN DER GRINTEN, Maurits

**Session Classification:** Dark Matter



Contribution ID: **32**

Type: **not specified**

## Welcome Address

*Monday, October 9, 2017 11:00 AM (10 minutes)*

**Session Classification:** Astroparticle Physics

Contribution ID: 33

Type: **not specified**

## The great collider in the sky

*Monday, October 9, 2017 11:10 AM (40 minutes)*

**Presenter:** Prof. SARKAR, Subir (University of Oxford (GB) and Niels Bohr Institute (DK))

**Session Classification:** Astroparticle Physics

Contribution ID: 34

Type: **not specified**

## **Review of General Relativity tests and the recent Virgo results**

*Monday, October 9, 2017 2:00 PM (45 minutes)*

**Primary author:** DEL POZZO, Walter

**Presenter:** DEL POZZO, Walter

**Session Classification:** Astroparticle Physics

Contribution ID: 35

Type: **not specified**

## **Cosmology and Sterile Neutrinos**

*Monday, October 9, 2017 2:55 PM (45 minutes)*

**Primary author:** Dr GARIAZZO, Stefano (IFIC-CSIC/University of Valencia)

**Presenter:** Dr GARIAZZO, Stefano (IFIC-CSIC/University of Valencia)

**Session Classification:** Astroparticle Physics

Contribution ID: 36

Type: **not specified**

## Dark Kinetic Heating of Neutron Stars

*Monday, October 9, 2017 3:50 PM (45 minutes)*

**Presenter:** BRAMANTE, Joseph (Queen's University & Perimeter Institute)

**Session Classification:** Astroparticle Physics

Contribution ID: 37

Type: **not specified**

## **Dark Matter and early Universe cosmology**

*Monday, October 9, 2017 12:00 PM (45 minutes)*

**Presenter:** MAMBRINI, Yann

**Session Classification:** Astroparticle Physics