### Light Anti-Nuclei as a Probe for New Physics (LAN2019)

# **Report of Contributions**

Observations of cosmic-rays and …

Contribution ID: 2

Type: not specified

### Observations of cosmic-rays and search for anti-nuclei with AMS-02

Monday 14 October 2019 14:20 (40 minutes)

Author: Dr OLIVA, Alberto (Centro de Investigaciones Energéti cas Medioambientales y Tecno)

Presenter: Dr OLIVA, Alberto (Centro de Investigaciones Energéti cas Medioambientales y Tecno)

Session Classification: Experimental Searces for Antinuclei: New Results and projects

Experimental searches for cosmic ···

Contribution ID: 3

Type: not specified

## Experimental searches for cosmic ray antinuclei with GAPS.

Monday 14 October 2019 15:30 (40 minutes)

Author: VON DOETINCHEM, Philip (University of Hawaii at Manoa)

Presenter: VON DOETINCHEM, Philip (University of Hawaii at Manoa)

Session Classification: Experimental Searces for Antinuclei: New Results and projects

Perspectives for Anti-Deuteron i ...

Contribution ID: 4

Type: not specified

### Perspectives for Anti-Deuteron identification in cosmic rays with an Helium-based detector

Monday 14 October 2019 16:10 (40 minutes)

Author: NOZZOLI, Francesco (Universita degli Studi di Trento è INFN (IT))
Presenter: NOZZOLI, Francesco (Universita degli Studi di Trento è INFN (IT))
Session Classification: Experimental Searces for Antinuclei: New Results and projects

Future large acceptance experime

Contribution ID: 5

Type: not specified

## Future large acceptance experiments of cosmic-ray and antimatter detection in space

Monday 14 October 2019 16:50 (40 minutes)

Author: DURANTI, Matteo (Universita e INFN, Perugia (IT))

Presenter: DURANTI, Matteo (Universita e INFN, Perugia (IT))

Session Classification: Experimental Searces for Antinuclei: New Results and projects

Sources of antimatter

Contribution ID: 6

Type: not specified

#### Sources of antimatter

Tuesday 15 October 2019 09:00 (1 hour)

Author: SALATI, PIERRE (Université de Savoie & CNRS)

**Presenter:** SALATI, PIERRE (Université de Savoie & CNRS)

Light Antinuclei from Dark Matter

Contribution ID: 7

Type: not specified

#### Light Antinuclei from Dark Matter

*Tuesday 15 October 2019 10:30 (1 hour)* 

Author: Prof. DONATO, Fiorenza (Torino University)

Presenter: Prof. DONATO, Fiorenza (Torino University)

New Era in the Quest for Dark Matter

Contribution ID: 8

Type: not specified

#### New Era in the Quest for Dark Matter

Tuesday 15 October 2019 11:30 (30 minutes)

Author: BERTONE, Gianfranco

Presenter: BERTONE, Gianfranco

Cosmic ray e± at high energy: a ···

Contribution ID: 9

Type: not specified

# Cosmic ray e± at high energy: a local and recent origin for TeV cosmic-rays?

*Tuesday 15 October 2019 14:00 (30 minutes)* 

Author: BUCHHOLZ, Annika

Presenter: BUCHHOLZ, Annika

Scrutinizing the evidence for dark  $\cdots$ 

Contribution ID: 10

Type: not specified

## Scrutinizing the evidence for dark matter in cosmic-ray antiprotons

Tuesday 15 October 2019 14:30 (30 minutes)

Author: KORSMEIER, Michael (University of Torino)

Presenter: KORSMEIER, Michael (University of Torino)

Antideuteron and antihelium: so ...

Contribution ID: 11

Type: not specified

### Antideuteron and antihelium: sources and discovery potential

*Tuesday 15 October 2019 15:30 (30 minutes)* 

Author: HERMS, Johannes (TU Munich)

Presenter: HERMS, Johannes (TU Munich)

Progress report on antideuteron s ···

Contribution ID: 12

Type: not specified

## Progress report on antideuteron search with the Alpha Magnetic Spectrometer on the ISS

*Tuesday 15 October 2019 16:00 (30 minutes)* 

Author: LU, Senquan (Academia Sinica (TW))

Presenter: LU, Senquan (Academia Sinica (TW))

Transport and interactions of cos ...

Contribution ID: 13

Type: not specified

# Transport and interactions of cosmic rays in the Galaxy

Wednesday 16 October 2019 09:00 (1 hour)

Author: MAURIN, David Alain (Centre National de la Recherche Scientifique (FR))Presenter: MAURIN, David Alain (Centre National de la Recherche Scientifique (FR))Session Classification: Antinuclei transport in the Galaxy and in the Heliosphere

Propagation of cosmic rays in the ···

Contribution ID: 14

Type: not specified

#### Propagation of cosmic rays in the Heliosphere

Wednesday 16 October 2019 10:30 (1 hour)

Author: ENGELBRECHT, Nicholas Eugene (SANSA)

Presenter: ENGELBRECHT, Nicholas Eugene (SANSA)

Particles and antiparticles in the …

Contribution ID: 15

Type: not specified

### Particles and antiparticles in the Heliosphere: recent measurements and modeling.

Wednesday 16 October 2019 11:30 (30 minutes)

Author: Dr DI FELICE, Valeria (Universita e INFN, Perugia (IT))Presenter: Dr DI FELICE, Valeria (Universita e INFN, Perugia (IT))Session Classification: Antinuclei transport in the Galaxy and in the Heliosphere

A new charge-sign dependent mo ...

Contribution ID: 16

Type: not specified

## A new charge-sign dependent model of cosmic-ray modulation

Wednesday 16 October 2019 14:00 (30 minutes)

Author: KUHLEN, Marco

Presenter: KUHLEN, Marco

Breakout session 1: The coalesce ····

Contribution ID: 17

Type: not specified

#### Breakout session 1: The coalescence model in a nutshel

Wednesday 16 October 2019 14:30 (30 minutes)

Author: KACHELRIESS, Michael (Unknown)

Presenter: KACHELRIESS, Michael (Unknown)

A closer look at secondary antipr ...

Contribution ID: 18

Type: not specified

#### A closer look at secondary antiproton production in cosmic rays and its impact on dark matter indirect searches

Wednesday 16 October 2019 15:30 (30 minutes)

Author: VITTINO, Andrea (RWTH Aachen University)

Presenter: VITTINO, Andrea (RWTH Aachen University)

Cross-Sections for antinuclei.

Contribution ID: 19

Type: not specified

#### **Cross-Sections for antinuclei.**

Thursday 17 October 2019 09:00 (1 hour)

Author:KACHELRIESS, Michael (Unknown)Presenter:KACHELRIESS, Michael (Unknown)

Session Classification: Antinuclei production cross-sections

Antinuclei Production

Contribution ID: 20

Type: not specified

#### **Antinuclei Production**

Thursday 17 October 2019 10:30 (1 hour)

Author: SHARMA, Natasha (Panjab University (IN))Presenter: SHARMA, Natasha (Panjab University (IN))Session Classification: Antinuclei production cross-sections

The COMPASS++/AMBER progr  $\cdots$ 

Contribution ID: 21

Type: not specified

### The COMPASS++/AMBER program for cross-sections measurements

Thursday 17 October 2019 11:30 (30 minutes)

Author: ZUCCON, Paolo (Universita degli Studi di Trento è INFN (IT))Presenter: ZUCCON, Paolo (Universita degli Studi di Trento è INFN (IT))Session Classification: Antinuclei production cross-sections

Breakout session 2, Standard Cos ....

Contribution ID: 22

Type: not specified

### Breakout session 2, Standard Cosmological Model in a nutshell.

Thursday 17 October 2019 14:00 (30 minutes)

Author: POULIN, Vivian (LAPTh, Annecy-le-vieux)Presenter: POULIN, Vivian (LAPTh, Annecy-le-vieux)Session Classification: Antinuclei production cross-sections

Production and acceleration of an ...

Contribution ID: 23

Type: not specified

### Production and acceleration of antinuclei in SNR shockwaves

Thursday 17 October 2019 14:30 (30 minutes)

Author: OLIVA, Alberto (Centro de Investigaciones Energéti cas Medioambientales y Tecno)

Presenter: OLIVA, Alberto (Centro de Investigaciones Energéti cas Medioambientales y Tecno)

Session Classification: Antinuclei production cross-sections

Cross-section measurements for ····

Contribution ID: 24

Type: not specified

### Cross-section measurements for cosmic-ray antinuclei interpretation.

Thursday 17 October 2019 15:30 (30 minutes)

Author: VON DOETINCHEM, Philip (University of Hawaii at Manoa)Presenter: VON DOETINCHEM, Philip (University of Hawaii at Manoa)Session Classification: Antinuclei production cross-sections

Antimatter in cosmology.

Contribution ID: 25

Type: not specified

#### Antimatter in cosmology.

Friday 18 October 2019 09:00 (1 hour)

Author: POULIN, Vivian (LAPTh, Annecy-le-vieux)

Presenter: POULIN, Vivian (LAPTh, Annecy-le-vieux)

Session Classification: Cosmology, antimatter, new physics searches

Primordial Antimatter as a Probe  $\cdots$ 

Contribution ID: 26

Type: not specified

#### Primordial Antimatter as a Probe of Cosmology and Fundamental Physics.

Friday 18 October 2019 10:30 (30 minutes)

Author: DREWES, Marco (Universite Catholique de Louvain (UCL) (BE))
Presenter: DREWES, Marco (Universite Catholique de Louvain (UCL) (BE))
Session Classification: Cosmology, antimatter, new physics searches

Primordial black holes as a probe ···

Contribution ID: 27

Type: not specified

#### Primordial black holes as a probe for new physics

*Friday 18 October 2019 11:00 (30 minutes)* 

Author: COOGAN, Adam (University of Amsterdam)
Presenter: COOGAN, Adam (University of Amsterdam)
Session Classification: Cosmology, antimatter, new physics searches

Final discussion and conclusions ···

Contribution ID: 28

Type: not specified

#### Final discussion and conclusions of the week

*Friday 18 October 2019 11:30 (30 minutes)* 

Open for discussions, follow-up a  $\cdots$ 

Contribution ID: 29

Type: not specified

# Open for discussions, follow-up activities, collaborations

Friday 18 October 2019 14:00 (3 hours)