

# **XSCRC2017: Cross sections for Cosmic Rays @ CERN**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## **Introduction to Galactic cosmic-ray propagation: the key role of production for cosmic-ray studies**

*Wednesday, March 29, 2017 2:15 PM (45 minutes)*

**Presenter:** MAURIN, David Alain (Centre National de la Recherche Scientifique (FR))

Contribution ID: 2

Type: **not specified**

## Welcome to the Workshop

*Wednesday, March 29, 2017 2:05 PM (10 minutes)*

**Presenter:** DONATO, Fiorenza (Univ. of Torino, Italy)

Contribution ID: 3

Type: **not specified**

## **The Role of cross sections in the indirect detection of dark matter**

*Wednesday, March 29, 2017 4:15 PM (45 minutes)*

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

Contribution ID: 4

Type: **not specified**

## **Nuclei in cosmic rays: why should we care about isotopic production cross sections?**

*Wednesday, March 29, 2017 3:00 PM (45 minutes)*

**Presenter:** MOSKALENKO, Igor (Stanford University)

Contribution ID: 5

Type: **not specified**

## **Antiprotons production cross sections: Precision requested in the light of AMS data**

*Wednesday, March 29, 2017 5:00 PM (30 minutes)*

**Presenter:** KORSMEIER, Michael (University of Torino)

Contribution ID: 6

Type: **not specified**

## **The impact of cross sections on the cosmic antiprotons**

*Wednesday, March 29, 2017 5:30 PM (30 minutes)*

**Presenter:** WINKLER, Martin (Nordita, Stockholm, Sweden)

Contribution ID: 7

Type: **not specified**

## **Secondary production of antinuclei in cosmic rays: nuclear vs astrophysical uncertainties**

*Wednesday, March 29, 2017 6:00 PM (30 minutes)*

**Presenter:** TOMASSETTI, Nicola (Perugia University & INFN- Perugia)



Contribution ID: 8

Type: **not specified**

## **Positrons and anti-protons measurements with AMS-02: latest results and perspectives**

*Thursday, March 30, 2017 9:00 AM (45 minutes)*

**Presenter:** XU, Weiwei (Massachusetts Inst. of Technology (US))

Contribution ID: 9

Type: **not specified**

## **Antiproton production in p-He collisions with SMOG at LHCb**

*Thursday, March 30, 2017 9:45 AM (45 minutes)*

**Presenter:** GRAZIANI, Giacomo (INFN, Sezione di Firenze (IT))

Contribution ID: **10**

Type: **not specified**

# **The Compass detector potentials for cosmic rays physics**

*Thursday, March 30, 2017 10:30 AM (30 minutes)*

**Presenter:** Dr CHIOSSO, Michela (University of Torino and INFN)

Contribution ID: 11

Type: **not specified**

## **CR nuclei measurements with AMS-02: latest results and perspectives**

*Thursday, March 30, 2017 11:30 AM (45 minutes)*

**Presenter:** YAN, Qi (Massachusetts Inst. of Technology (US))

Contribution ID: 12

Type: **not specified**

## **NA61/SHINE results from pp interactions relevant for cosmic rays**

*Thursday, March 30, 2017 12:15 PM (30 minutes)*

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

Contribution ID: 13

Type: **not specified**

## **FLUKA: theoretical grounds and wished new data**

*Thursday, March 30, 2017 2:30 PM (45 minutes)*

**Presenter:** CERUTTI, Francesco (CERN)

Contribution ID: 14

Type: **not specified**

## **GEANT4, Models and links to cosmic rays, gamma rays, and accelerator physics**

*Thursday, March 30, 2017 3:15 PM (45 minutes)*

**Presenter:** Prof. IVANTCHENKO, Vladimir (CERN)

Contribution ID: 15

Type: **not specified**

## **Role of production of secondary particles and nuclei in cosmic rays using the FLUKA code**

*Thursday, March 30, 2017 4:30 PM (45 minutes)*

**Presenter:** MAZZIOTTA, Mario Nicola (Universita e INFN, Bari (IT))



Contribution ID: 16

Type: **not specified**

## **Monte Carlo models for hadronic interactions and and secondary spectra**

*Thursday, March 30, 2017 5:15 PM (30 minutes)*

**Presenter:** OSTAPCHENKO, Sergey (Frankfurt Institute for Advance Studies)

Contribution ID: 17

Type: **not specified**

## **A comparison between nuclear and astrophysical background uncertainties for dark matter search with AMS-02”: the antiproton channel**

*Thursday, March 30, 2017 5:45 PM (20 minutes)*

**Presenter:** MASI, Nicolo (Universita e INFN, Bologna (IT))

Contribution ID: **18**

Type: **not specified**

## **The galactic diffusion emission in the Fermi-LAT data**

*Friday, March 31, 2017 9:00 AM (45 minutes)*

**Presenter:** JOHANNESON, Gudlaugur (Science Institute, University of Iceland)

Contribution ID: 19

Type: **not specified**

## **The role of cross sections for the hadronic production of gamma rays within the Femi-LAT physics**

*Friday, March 31, 2017 9:45 AM (45 minutes)*

**Presenter:** KAMAE, Tune (Tokyo University)

Contribution ID: **20**

Type: **not specified**

## **Small angle spectrometer in the LHC**

*Friday, March 31, 2017 11:30 AM (30 minutes)*

**Presenter:** ORAVA, Risto (University of Helsinki and Helsinki Institute of Physics)

Contribution ID: **21**

Type: **not specified**

## **Charm production with SMOG at LHCb**

*Friday, March 31, 2017 10:30 AM (30 minutes)*

**Presenter:** FLEURET, Frederic Domini (Universite de Paris-Sud 11 (FR))

Contribution ID: 22

Type: **not specified**

## **Study on the experimental requirements to measure anti-p production cross section with fixed target beams at 200 and 450GeV**

*Friday, March 31, 2017 12:15 PM (30 minutes)*

**Presenter:** ZUCCON, Paolo (Massachusetts Inst. of Technology (US))

Contribution ID: 23

Type: **not specified**

## Final remarks

*Friday, March 31, 2017 12:45 PM (15 minutes)*



Contribution ID: 24

Type: **not specified**

## **NA61/SHINE results from p+C interactions and potential for C+p measurements**

*Thursday, March 30, 2017 12:45 PM (30 minutes)*

**Presenter:** UNGER, Michael (KIT - Karlsruhe Institute of Technology (DE))

Contribution ID: 25

Type: **not specified**

## **Urgency for new spallation cross sections: guidelines for cosmic-ray nuclei**

*Thursday, March 30, 2017 6:05 PM (15 minutes)*

**Presenter:** GENOLINI, Yoann (LAPTh)

Contribution ID: 27

Type: **not specified**

## **Progress in TRD for identifying multi-TeV hadrons**

*Friday, March 31, 2017 12:00 PM (15 minutes)*

**Presenter:** ROMANIOUK, Anatoli (National Research Nuclear University MEPhI (RU))

Contribution ID: **28**

Type: **not specified**

## Welcome to CERN

*Wednesday, March 29, 2017 2:00 PM (5 minutes)*

**Presenter:** WIEDEMANN, Urs (CERN)