

**Cosmic rays & their
interstellar medium
environment CRISM-2014**

Report of Contributions

Contribution ID: 17

Type: **not specified**

Welcome

Tuesday, June 24, 2014 9:00 AM (15 minutes)

Presenters: Dr MARCOWITH, Alexandre (LUPM); Prof. FEINSTEIN, Fabrice

Contribution ID: **18**

Type: **not specified**

An observational view of particle acceleration in cosmic ray sources

Tuesday, June 24, 2014 9:15 AM (45 minutes)

Presenter: Dr VINK, Jacco (GRAPPA University of Amsterdam The Netherlands)

Session Classification: Multiwavelength view of cosmic ray sources

Contribution ID: 19

Type: **not specified**

Direct detection of cosmic rays: Recent observational progresses

Tuesday, June 24, 2014 4:20 PM (45 minutes)

Presenter: Dr DEROME, Laurent (LPSC Grenoble France)

Session Classification: The cosmic ray spectrum

Contribution ID: 20

Type: **not specified**

The highest galactic cosmic ray energies

Tuesday, June 24, 2014 5:35 PM (30 minutes)

Presenter: Dr ALLARD, Denis (APC France)

Session Classification: The cosmic ray spectrum

Contribution ID: 21

Type: **not specified**

Origin of Cosmic Rays

Wednesday, June 25, 2014 9:00 AM (45 minutes)

Presenter: Prof. DRURY, Luke (DIAS Ireland)

Session Classification: Cosmic ray sources: theory

Contribution ID: 22

Type: **not specified**

High energy emission from massive star clusters

Wednesday, June 25, 2014 9:45 AM (30 minutes)

Presenter: Prof. BYKOV, Andrei

Session Classification: Cosmic ray sources: theory

Contribution ID: 23

Type: **not specified**

Cosmic Ray driven instabilities

Wednesday, June 25, 2014 2:00 PM (45 minutes)

Presenter: Prof. ZWEIBEL, Ellen

Session Classification: Plasma instabilities and cosmic rays

Contribution ID: 24

Type: **not specified**

Relativistic cosmic-ray back-reaction instabilities along the background magnetic field

Wednesday, June 25, 2014 4:15 PM (30 minutes)

Presenter: Dr NEKRASOV, Anatoly

Session Classification: Plasma instabilities and cosmic rays

Contribution ID: 25

Type: **not specified**

Cosmic-Ray Ionization of Molecular Clouds

Thursday, June 26, 2014 9:00 AM (45 minutes)

Presenter: Dr INDRIOLO, Nick (John Hopkins University USA)

Session Classification: Low energy cosmic rays

Contribution ID: 26

Type: **not specified**

Wind-driven Exclusion of Cosmic Rays in the Protoplanetary Disk Environment

Thursday, June 26, 2014 9:45 AM (30 minutes)

Presenter: CLEEVES, IIsedore (University of Michigan USA)

Session Classification: Low energy cosmic rays

Contribution ID: 27

Type: **not specified**

Recent results from Herschel

Thursday, June 26, 2014 2:50 PM (45 minutes)

Presenter: Dr ANDRÉ, Philippe (CEA-AIM Saclay France)

Session Classification: The turbulent Interstellar medium

Contribution ID: 28

Type: **not specified**

The Multi-wavelength ISM: from CRs to dust emission

Thursday, June 26, 2014 4:05 PM (30 minutes)

Presenter: Dr JAFFE, Tess (IRAP Toulouse France)

Session Classification: The turbulent Interstellar medium

Contribution ID: 29

Type: **not specified**

Non-Thermal Radiation from the Inner Galaxy

Friday, June 27, 2014 10:00 AM (45 minutes)

Presenter: Dr CROCKER, Roland

Session Classification: The galactic center

Contribution ID: **30**

Type: **not specified**

Low-Energy Cosmic Rays in the Galactic Center Region

Friday, June 27, 2014 11:15 AM (30 minutes)

Presenter: Dr TATISCHEFF, Vincent

Session Classification: The galactic center

Contribution ID: 31

Type: **not specified**

Cosmic Ray diffusion in magnetized turbulence

Friday, June 27, 2014 2:00 PM (45 minutes)

Presenter: Dr TAUTZ, Robert

Session Classification: Cosmic Ray propagation

Contribution ID: 32

Type: **not specified**

Cosmic Ray propagation close to their acceleration site

Friday, June 27, 2014 2:45 PM (30 minutes)

Presenter: Dr NAVA, Lara (Hebrew university of jerusalem Israël)

Session Classification: Cosmic Ray propagation

Contribution ID: 33

Type: **not specified**

Cosmic ray driven winds

Wednesday, June 25, 2014 3:15 PM (30 minutes)

Presenter: Prof. VÖLK, Heinrich (MPIK Heidelberg Germany)

Session Classification: Plasma instabilities and cosmic rays

Contribution ID: 47

Type: **not specified**

Hadronic TeV emission of the supernova remnant W51C observed with the MAGIC Telescopes?

Tuesday, June 24, 2014 10:00 AM (30 minutes)

Presenter: Dr KRAUSE, Julian

Session Classification: Multiwavelength view of cosmic ray sources

Contribution ID: 48

Type: **not specified**

Recent results by Voyager

Presenter: Dr LALLEMENT, Rosine

Contribution ID: 71

Type: **not specified**

Particle acceleration in the stellar graveyard and the case of young SNRs

Tuesday, June 24, 2014 11:00 AM (30 minutes)

Presenter: ACERO, Fabio (LUPM)

Session Classification: Multiwavelength view of cosmic ray sources

Contribution ID: 72

Type: **not specified**

Gamma-ray emission from supernova remnants

Presenter: FERNANDEZ, Diane (IN2P3)

Contribution ID: 73

Type: **not specified**

SNR and molecular cloud associations as seen by H.E.S.S.

Tuesday, June 24, 2014 2:00 PM (30 minutes)

Presenter: TRICHARD, Cyril (LAPP-HESS)

Session Classification: Multiwavelength view of cosmic ray sources

Contribution ID: 74

Type: **not specified**

Gamma Rays from supernova remnants

Tuesday, June 24, 2014 2:30 PM (30 minutes)

Presenter: FERNANDEZ, Diane (IN2P3)

Session Classification: Multiwavelength view of cosmic ray sources

Contribution ID: 75

Type: **not specified**

TeV sources in the Cygnus region observed with VERITAS

Tuesday, June 24, 2014 3:00 PM (20 minutes)

Presenter: Ms KRAUSE, Maria (DESY)

Session Classification: Multiwavelength view of cosmic ray sources

Contribution ID: 76

Type: **not specified**

The cosmic-ray, dust, and gas content of the local Chamaeleon clouds + Results from Voyager

Presenter: GRENIER, Isabelle (AIM, Paris Diderot et CEA/Irfu)

Contribution ID: 77

Type: **not specified**

A database of charged cosmic rays (CRDB) and constraints on the interstellar flux

Tuesday, June 24, 2014 5:05 PM (30 minutes)

Presenter: Mr MAURIN, David (LPSC)

Session Classification: The cosmic ray spectrum

Contribution ID: 78

Type: **not specified**

Particle acceleration in Supernovae and subsequent gamma-ray emission

Presenter: Dr RENAUD, Matthieu (Laboratoire Univers et Particules de Montpellier)

Contribution ID: 79

Type: **not specified**

The impact of magnetic turbulence spectrum on particle acceleration in SNR IC443

Wednesday, June 25, 2014 11:15 AM (30 minutes)

Presenter: Dr TELEZHINSKY, Igor (DESY Zeuthen)

Session Classification: Cosmic ray sources: theory

Contribution ID: **80**

Type: **not specified**

Hydrodynamics of Young Supernova Remnants and the Implications for their Gamma-ray emission

Wednesday, June 25, 2014 10:45 AM (30 minutes)

Presenter: Dr DWARKADAS, Vikram (University of Chicago)

Session Classification: Cosmic ray sources: theory

Contribution ID: **81**

Type: **not specified**

Cosmic Rays in star forming galaxies

Wednesday, June 25, 2014 11:45 AM (30 minutes)

Presenter: Dr MARTIN, Pierrick (CNRS/IRAP)

Session Classification: Cosmic ray sources: theory

Contribution ID: 82

Type: **not specified**

The role of cosmic rays on magnetic field diffusion and the formation of protostellar discs

Wednesday, June 25, 2014 2:45 PM (30 minutes)

Presenter: Dr PADOVANI, Marco (Laboratoire Univers et Particules de Montpellier - France)

Session Classification: Plasma instabilities and cosmic rays

Contribution ID: 83

Type: **not specified**

Magnetic field structure from cosmic ray driven dynamo in spiral galaxies

Wednesday, June 25, 2014 4:45 PM (30 minutes)

Presenter: Mr WOLTANSKI, Dominik

Session Classification: Plasma instabilities and cosmic rays

Contribution ID: **84**

Type: **not specified**

Cosmic-ray induced ionization of a molecular cloud shocked by the W28 supernova remnant

Thursday, June 26, 2014 10:45 AM (30 minutes)

Presenter: Mr VAUPRÉ, Solenn (IPAG)

Session Classification: Low energy cosmic rays

Contribution ID: 85

Type: **not specified**

Propagation of cosmic rays into diffuse clouds

Thursday, June 26, 2014 11:15 AM (30 minutes)

Presenter: Dr MORLINO, Giovanni (INAF/Osservatorio di Arcetri)

Session Classification: Low energy cosmic rays

Contribution ID: 86

Type: **not specified**

Cosmic Ray Transport in the Astrospheres of Solar Twins

Thursday, June 26, 2014 11:45 AM (30 minutes)

Presenter: Dr RIMMER, Paul (University of St Andrews)

Session Classification: Low energy cosmic rays

Contribution ID: 87

Type: **not specified**

Cosmic-ray heating of molecular cloud cores

Thursday, June 26, 2014 2:00 PM (20 minutes)

Presenter: Dr GALLI, Daniele (INAF-Osservatorio Astrofisico di Arcetri)

Session Classification: Low energy cosmic rays

Contribution ID: 88

Type: **not specified**

Wide-Field Polarimetry: A Unique Probe of Interstellar Turbulence

Thursday, June 26, 2014 4:35 PM (30 minutes)

Presenter: Prof. GAENSLER, Bryan (The University of Sydney / CAASTRO)

Session Classification: The turbulent Interstellar medium

Contribution ID: **89**

Type: **not specified**

Polarized thermal dust emission from Planck

Thursday, June 26, 2014 5:05 PM (30 minutes)

Presenter: Dr FALGARONE, Edith (Ecole Normale Supérieure et Observatoire de Paris)

Session Classification: The turbulent Interstellar medium

Contribution ID: **90**

Type: **not specified**

X-shape magnetic fields in galactic halos

Presenter: Dr FERRIÈRE, Katia

Contribution ID: **91**

Type: **not specified**

Synchrotron emission from molecular clouds

Thursday, June 26, 2014 5:35 PM (30 minutes)

Presenter: Dr STRONG, andy (MPE)

Session Classification: The turbulent Interstellar medium

Contribution ID: 92

Type: **not specified**

Localized SiO emission triggered by the passage of the W51C supernova remnant shock

Presenter: Dr DUMAS, Gaelle (IRAM)

Contribution ID: 93

Type: **not specified**

Localized SiO emission triggered by the passage of the W51C supernova remnant shock

Thursday, June 26, 2014 2:20 PM (30 minutes)

Presenter: Dr DUMAS, Gaelle (IRAM)

Session Classification: Low energy cosmic rays

Contribution ID: 94

Type: **not specified**

APEX observations of non-stationary magneto-hydrodynamical shocks in W44

Friday, June 27, 2014 9:00 AM (30 minutes)

Presenter: Dr ANDERL, Sibylle (Institut de Planétologie et d'Astrophysique de Grenoble (IPAG))

Session Classification: The turbulent Interstellar medium

Contribution ID: 95

Type: **not specified**

Irradiated shocks in the W28 A2 star-forming region: sites of cosmic-ray acceleration ?

Friday, June 27, 2014 9:30 AM (30 minutes)

Presenter: Dr GUSDORF, Antoine (Ira/Ierma)

Session Classification: The turbulent Interstellar medium

Contribution ID: 96

Type: **not specified**

The Contribution of Cosmic Rays Interacting With Molecular Clouds to the Galactic Center Gamma-Ray Excess

Friday, June 27, 2014 11:45 AM (30 minutes)

Presenter: Dr GORDON, Chris (University of Canterbury)

Session Classification: The galactic center

Contribution ID: 97

Type: **not specified**

Propagation of high-energy cosmic-ray electrons in the interstellar medium

Friday, June 27, 2014 3:15 PM (20 minutes)

Presenter: Prof. ATTALLAH, Reda (Département de Physique, Université Badji Mokhtar, Annaba, Algérie)

Session Classification: Cosmic Ray propagation

Contribution ID: 98

Type: **not specified**

Picard: A new Code for The Galactic Cosmic Ray Propagation Problem

Friday, June 27, 2014 4:15 PM (30 minutes)

Presenter: Dr KISSMANN, Ralf (Universtity Innsbruck)

Session Classification: Cosmic Ray propagation

Contribution ID: 99

Type: **not specified**

Charged-particle heating in imbalanced MHD turbulence

Friday, June 27, 2014 5:15 PM (30 minutes)

Presenter: WEIDL, Martin (IPP Garching)

Session Classification: Cosmic Ray propagation

Contribution ID: **100**

Type: **not specified**

Voyager 1 events and GCR data since 2012

Presenter: Dr LALLEMENT, Rosine

Contribution ID: **101**

Type: **not specified**

A solution to the cosmic ray anisotropy problem

Friday, June 27, 2014 4:45 PM (30 minutes)

Presenter: Dr MERTSCH, Philipp (KIPAC, Stanford University)

Session Classification: Cosmic Ray propagation

Contribution ID: **102**

Type: **not specified**

The cosmic-ray, dust, and gas content of the local Chamaeleon clouds + reports on Voyager results

Tuesday, June 24, 2014 3:20 PM (30 minutes)

Presenter: GRENIER, Isabelle (AIM, Paris Diderot et CEA/Irfu)

Session Classification: Multiwavelength view of cosmic ray sources

Contribution ID: **103**

Type: **not specified**

A Catalogue of High-Energy Observations of Galactic Supernova Remnants

Tuesday, June 24, 2014 11:30 AM (30 minutes)

Presenter: Dr FERRAND, Gilles (University of Manitoba)

Session Classification: Multiwavelength view of cosmic ray sources

Contribution ID: **104**

Type: **not specified**

X-shape magnetic fields in galactic halos

Wednesday, June 25, 2014 5:15 PM (30 minutes)

Presenter: Dr FERRIÈRE, Katia (Observatoire Midi-Pyrénées)

Session Classification: Plasma instabilities and cosmic rays

Contribution ID: **107**

Type: **not specified**

Informations from Very High Energy Muons and Neutrinos contained in Extensive Air Shower cores

Tuesday, June 24, 2014 6:10 PM (5 minutes)

Presenter: Dr TALAI, Mohamed Cherif (Departement de Physique, Universite Badji Mokhtar Annaba)

Session Classification: Poster presentation

Contribution ID: **108**

Type: **not specified**

Secondaries from supernova remnants and new AMS-02 data

Tuesday, June 24, 2014 6:15 PM (5 minutes)

Presenter: Dr MERTSCH, Philipp (KIPAC, Stanford University)

Session Classification: Poster presentation

Contribution ID: **109**

Type: **not specified**

Proton analysis with AMS-02 and solar modulation level

Tuesday, June 24, 2014 6:20 PM (5 minutes)

Presenter: Mr GHELFI, Alexandre (Doctorant)

Session Classification: Poster presentation

Contribution ID: 110

Type: **not specified**

3D simulations of the emission from young supernova remnants including particle acceleration

Tuesday, June 24, 2014 6:25 PM (5 minutes)

Presenter: Dr FERRAND, Gilles (University of Manitoba)

Session Classification: Poster presentation

Contribution ID: 111

Type: **not specified**

Gas towards the gamma-ray sources HESS J1731-347 and HESS J1729-345

Tuesday, June 24, 2014 6:05 PM (5 minutes)

Presenter: Dr MAXTED, Nigel (Laboratoire Univers et Particules de Montpellier)

Session Classification: Poster presentation

Contribution ID: 112

Type: **not specified**

Cosmic ray propagation in local magnetic fields

Tuesday, June 24, 2014 6:30 PM (5 minutes)

Presenter: Mr COHET, Romain

Session Classification: Poster presentation