



Solvay Workshop

“SuGAR 2018: Searching for the sources of galactic and extra galactic cosmic rays”

Program - January 23-26, 2018

TUESDAY 23 JANUARY 2018

- 08:30 - 09:00 Registration and coffee
- 09:00 - 09:15 Welcome by Marc Henneaux (Director of the Solvay Institutes, Brussels)
- 09:15 - 11:05 ***Cosmic rays I: overview on experimental results, origin, acceleration and propagation.***
Convener: Juan Antonio Aguilar Sánchez
09:15 Review talk on Cosmic Rays 1h00'
Speaker: Ralph Engel
10:15 Cosmic ray origin and acceleration process 50'
Speaker: Pasquale Blasi
- 11:05 - 11:25 COFFEE BREAK**
- 11:25 - 12:45 ***Cosmic rays I: overview on experimental results, origin, acceleration and propagation.***
Convener: Juan Antonio Aguilar Sánchez
11:25 IceTop composition results 40'
Speaker: Sam De Ridder
12:05 AMS results 40'
Speaker: Mercedes Paniccia
- 12:45 - 14:00 LUNCH BREAK (at the university's cafeteria)**
- 14:00 - 16:10 ***Cosmic Rays II: Anisotropy in the knee region***
Convener: Stijn Buitink
14:00 Cosmic ray propagation through the ISM 50'
Speaker: Ellen Zweibel
14:50 Galactic CR anisotropy with IceCube/IceTop 40'
Speaker: Paolo Desiati
15:30 Full sky Galactic anisotropy HAWC/IceCube 40'
Speaker: Juan Carlos Díaz-Vélez
- 16:10 - 16:30 COFFEE BREAK**
- 16:30 - 18:30 ***Cosmic Rays III: From the knee to the ultra-high energy spectrum***
Convener: Ioana Maris
16:30 Lofar composition measurements + acceleration models 40'
Speaker: Tobias Winchen

- 17:10 *Highlights from AUGER: composition and anisotropy* 40'
Speaker: Michael Unger
- 17:50 *Highlights from TA:composition/anisotropy* 40'
Speaker: Charles Jui

WEDNESDAY 24 JANUARY 2018

09:00 - 10:40

Neutrino Astronomy I

Convener: Nick Van Eijndhoven

09:00 *Neutrino Astronomy and Highlights from IceCube* 1h00'

Speaker: Marek Kowalski

10:00 *KM3NeT and ANTARES* 40'

Speaker: Juan José Hernández-Rey

10:40 - 11:10

COFFEE BREAK

11:10 - 12:30

Neutrino Astronomy I

Convener: Nick Van Eijndhoven

11:10 *Interpretation of the astrophysical neutrino signal* 40'

Speaker: Andrii Neronov

11:50 *Origin of the neutrino astrophysical flux* 40'

Speaker: Markus Ahlers

12:30 - 14:00

LUNCH BREAK (at the university's cafeteria)

14:00 - 16:00

Neutrino Astronomy II

Convener: Krijn De Vries

14:00 *Cosmogenic Neutrinos* 40'

Speaker: Kumiko Kotera

14:40 *Highlights from ARIANNA* 40'

Speaker: Anna Nelles

15:20 *Highlights from ARA* 40'

Speaker: Keiichi MASE

16:00 - 16:30

COFFEE BREAK

16:30 - 17:50

Neutrino Astronomy III

Convener: Peter Tinyakov

16:30 *GRAND* 40'

Speaker: Sijbrand de Jong

17:10 *RADAR* 40'

Speaker: Krijn de Vries

18:00 - 19:00

POSTERS & BEERS

THURSDAY 25 JANUARY 2018

09:00 - 10:40

Gamma-ray astronomy III: TeV gamma rays

Convener: Dirk Ryckbosch

09:00 *Review talk on Gamma-ray Astronomy* 1h00'

Speaker: Elizabeth Hays

10:00 *Extragalactic gamma-ray sources and their cutoffs* 40'
Speaker: Andrew Taylor

10:40 - 11:10 COFFEE BREAK

11:10 - 12:30

Gamma-ray Astronomy II

Convener: Simona Toscano

11:10 *The e-astrogram program* 40'

Speaker: Karl Mannheim

11:50 *X-rays astronomy and multi-wavelength observations* 40'

Speaker: Andrea Santangelo

12:30 - 12:40

GROUP PHOTO (in the Solvay room)

12:40 - 14:00

LUNCH BREAK (at the university's cafeteria)

14:00 - 16:00

Gamma-ray astronomy III: TeV gamma rays

Convener: Alexander Sevrin

14:00 *Highlights from MAGIC and CTA* 40'

Speaker: Elisa Prandini

14:40 *Highlights from HAWC* 40'

Speaker: Dingus Brenda

15:20 *Gamma-rays and the sources of galactic cosmic rays* 40'

Speaker: Stefano Gabici

16:00 - 16:20

COFFEE BREAK

16:20 - 18:00

Discussion Panel

Convener: Nick van Eijndhoven

19:30

BANQUET (La Maison du Cygne, Grand Place 9, 1000 Brussels)

FRIDAY 26 JANUARY 2018

09:00 - 10:40

Gravitational Waves

Convener: Olaf Scholten

09:00 *Review talk on Gravitational Waves* 50'

Speaker: Chris Van den Broeck

09:50 *LIGO/Virgo highlights* 50'

Speaker: Patricia Schmidt

10:40 - 11:10

COFFEE BREAK

11:10 - 12:30

Gravitational Waves

Convener: Olaf Scholten

11:10 *Fundamental physics with LISA and Einstein Telescope* 40'

Speaker: Bert Vercoocke

11:50 *Multimessenger connection of gravitational waves* 40'

Speaker: László Gergely

12:30 - 13:30

Summary of the workshop

Convener: Juan Antonio Aguilar Sánchez