



**PIERRE
AUGER**
OBSERVATORY

ISAPP school at the Pierre Auger Observatory

L. Perrone for the Auger members participating to ISAPP

Krakow June 2018



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ISAPP – International School on AstroParticle Physics

European Doctorate School

A network of European Institutions has been created, with the purpose of organizing a common curriculum in Astroparticle Physics at the level of a Doctorate School.

The Institutions of the ISAPP network have subscribed an [agreement](#). On the basis of the agreements subscribed by these Institutions, specialized courses concerning Astroparticle Physics are organized in a common International School on AstroParticle Physics (ISAPP). Bilateral and multilateral student exchanges concerning the research activities in this field are also foreseen, in view of their thesis preparation.

The network presently includes [36 Institutions](#). The agreement subscribed by the ISAPP Institutions is open to the possibility of new entries. Other Institutions negotiating their joining are welcome.



Home

ISAPP Aims

Steering Committee

ISAPP Schools

- 2018
- 2017
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- 2008
- 2007
- 2006
- 2005
- 2004
- 2003
- 2002

Partner Institutes

Related Links

Internal

ISAPP Schools

2018

- [Ferrara Summer Institute](#) Using Particle Physics to Understand and Image the Earth
- [Balkal Summer School](#) Exploring the Universe through multiple messengers
- [ISAPP School at CERN](#) LHC meets Cosmic Rays

2017

- [Arenzano School](#) Neutrinos in Physics, Astrophysics and Cosmology
- [Texel School](#) The dark and the visible side of the Universe

2016

- [Milano School](#) Physics and Astrophysics of Cosmic Rays in Space
- [L'Aquila Summer Institute](#) Using particle physics to understand and imaging the Earth

2015

- [Paris School](#) Cosmology

2014

- [Belgrate School](#) Multi-wavelength and multi-messengers investigation of the visible and dark Universe

Motivation

Fruitful extension of the ISAPP for a special edition on a larger scale

Profit from the Observatory infrastructure. Logistics management straight forward.

Good timing (Auger upgrade advanced, chance for students to put their hands on the detector)

Offer students/speakers from South-America an additional opportunity

Offer students/speakers from Europe the chance to visit the Observatory

Chronology

Oct 2017

Full support from the ISAPP steering committee to investigate the feasibility of a school edition at Malargue

Nov 2017 – Malargue Meeting

Endorsment to the initiative from the Collaboration Board

Proposed date

2019

February – March

(it depends on our decision on the date of the Collaboration meeting)

Status

Proposed title for the school

“Cosmic Ray Vision from the Southern Sky”

June 8th: first meeting in person of ISAPP members within Auger.

TOPICS

UHE Cosmic Rays (theory and exp)
High-Energy Neutrinos
Multi-messenger
Gamma Rays
Cosmic Ray Sources and propagation

FORMAT

- Basic lectures (with exercises)
AND
- Seminars on specific items
- Poster Session
- Public lecture

SIDE ACTIVITIES

Participating to a FD shift (26/2 – 16/3)
Specific hardware work on the field or in the assembly building
Visit to the field
Night sky observation
Visit to the ESA Radio Telescope Deep Space Antenna 3

What to do now

We are starting the search for funds to provide (partial) support to students and speakers

Fee has to be kept as low as possible due to the high cost of the travel.

- Positive signals from some institutions.
- INFN Division of Lecce will provide the support of 1 person from the admin staff for the organization of the school (scientific secretariat). This person will be in Malargue during the school.

- Interact with the Observatory (which is involved in the organization)
- Set precise date and check for the availability of the lecture room.
- Setup a web site/indico of the school (within the next 2/3 months)
- Contact the speakers