

# **SOLVAY WORKSHOP: SuGAR 2018**

**Tuesday, 23 January 2018 - Friday, 26 January 2018**

**ULB Campus Plaine**

## **Scientific Programme**

The latest experimental results from gamma-ray (CTA, HAWC), neutrino astronomy (IceCube, KM3NeT), cosmic ray (Pierre Auger Observatory, Telescope Array, AMS-II, Lofar) and gravitational waves (LIGO, Virgo) experiments will be presented, as well as the latest developments in phenomenological interpretations and theoretical models. The interplay between subjects proposed in this workshop reflects the multi-messenger observational approach followed by the cosmic ray physics community.

This workshop represents an excellent platform for discussion and exchange among researchers working in the wide field of astroparticle physics. The format of the workshop will allocate time for open discussions that will allow the participants to explore and discuss the experimental results and consequences of different theoretical models on the origin of cosmic rays and their acceleration and transport in the interstellar medium.

Planned sessions include:

Galactic and extragalactic cosmic rays: spectrum / composition / anisotropy.

Modeling: particle acceleration and propagation.

Neutrino astronomy: highlights and future developments.

Gamma-ray astronomy: highlights and future developments.

Gravitational waves: highlights and future developments.