

50 years of physics from Particles to the Universe



Rapport sur les contributions

ID de Contribution: 1

Type: **Non spécifié**

The physics of the Universe (tbc)

vendredi 10 décembre 2021 14:10 (35 minutes)

Orateur: MURAYAMA, Hitoshi (BerkeleyUSA)

ID de Contribution: 2

Type: **Non spécifié**

Neutrino physics and astrophysics

vendredi 10 décembre 2021 14:45 (35 minutes)

Orateur: KAJITA, Takaaki (ICRR and IPMU, Univ. of Tokyo)

ID de Contribution: 3

Type: **Non spécifié**

Welcome

vendredi 10 décembre 2021 14:00 (10 minutes)

Orateur: PAIN, Reynald (IN2P3)

ID de Contribution: 4

Type: **Non spécifié**

Smashing discoveries —Particle physics at accelerators

vendredi 10 décembre 2021 15:20 (35 minutes)

Orateur: HOECKER, Andreas (CERN)

ID de Contribution: 5

Type: **Non spécifié**

Exploring the Phase Diagram of Strongly Interacting Matter

vendredi 10 décembre 2021 15:55 (35 minutes)

This talk will address different aspects of the phase diagram of strongly interacting matter, such as the liquid-gas phase transition at low temperature and the hadron quark gluon plasma cross over transition at high temperature. Selected results from GANIL, GSI, the AGS and RHIC at BNL as well as the SPS and the LHC at CERN will be presented and discussed in the framework of theory and phenomenology.

Orateur: STACHEL, Johanna (Heidelberg University)

ID de Contribution: 6

Type: **Non spécifié**

The Evolution of Baryonic Matter from the third minute to the Present

vendredi 10 décembre 2021 17:00 (35 minutes)

Orateur: APRAHAMIAN, Ani (Alikhanyan National Science Laboratory of Armenia and University of Notre Dame)

ID de Contribution: 7

Type: **Non spécifié**

Particles from the Universe : The next Fifty Years

vendredi 10 décembre 2021 17:35 (35 minutes)

Orateur: BLANDFORD, Roger (Stanford)

ID de Contribution: 8

Type: **Non spécifié**

Probing dark energy

vendredi 10 décembre 2021 18:10 (35 minutes)

The discovery of the acceleration of the expanding universe in the late 1990's is one of the most exciting developments in modern physics over the last half-century. Its existence challenges some of our most basic understandings of fundamental physics. I will review the various methods we can use to derive improved constraints on this phenomenon, with particular emphasis on two major "Stage IV" experiments that are either just coming on line or nearing construction completion: the Dark Energy Survey Instrument and the Vera C. Rubin Observatory. I will also discuss the current state of the field including the latest "tensions".

Orateur: KAHN, Steve (Stanford University and SLAC National Accelerator Lab)

ID de Contribution: 9

Type: **Non spécifié**

Visit of Museum exhibition : L'évolution en voie d'illumination

vendredi 10 décembre 2021 19:00 (1 heure)

If you are not attending the symposium and are coming later to visit the exhibition, please join us between 6 and 6.45pm at the entrance to the Verniquet amphitheatre where we will give you access badges. You will then be able to join the visit with all the guests.

ID de Contribution: **10**

Type: **Non spécifié**

Dinner-cocktail at the Grande galerie de l'évolution

vendredi 10 décembre 2021 20:00 (3h 30m)

If you are only attending the dinner-cocktail, you can join us from 7.30 pm onwards directly at la Grande galerie de l'évolution. A badge will be given to you at the entrance to access the exhibition areas. All guests coming from the symposium will arrive between 8 pm and 8.30 pm. The dinner-cocktail will start at 8.30 pm.