

# Welcome in Guadeloupe!

Thank you very much to all of you for participating in EDSU2020 despite the travel ban in many countries and the coronaviral infection risk

Finally, including cancellations, the number of participants is around 40  
Over 61 talks, 21 have been cancelled but among the cancelled talks, 8 will be given remotely

We had to revise the timescale of course to take into account the time difference between countries as far as the talks given remotely are concerned.

3<sup>rd</sup> World Summit on  
Exploring the **Dark Side**  
of the **Universe**

March 9-13, 2020  
Guadeloupe Islands University of Antilles Pointe-à-Pitre

**Organizing Committee**  
Zohair Bouhar (CNEA, Argentina)  
Betty Collatz (DFSG, Germany)  
Laurent Chauvaud (CEA Saclay, France)  
Hélène Courtois (IPNL, France)  
Marion Doucas (IAS, France)  
Gilles Gauthier (Queen's University, Canada)  
Bruce Knudsen (USFQ, Ecuador)  
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Bjoern Penning (Brandeis University, USA)  
Pierre Petit (JAL, France)  
Christophe Royon (JHU, USA)  
Aaron Vincent (Queen's University, Canada)  
Matthew Vielzeuf (CEA Saclay, France)

**Scientific programme**  
Dark Matter  
Dark Energy  
Neutrino Cosmology  
Gravity and Modified Gravity  
Gravitational Waves  
Multi-messenger astronomy  
Primordial universe, Inflation and CMB  
Tension between the Early and the Late Universe

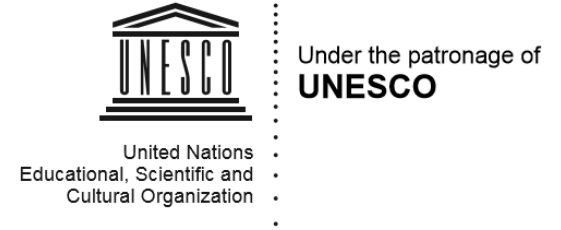
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Françoise Combes (LORMA, Paris)  
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Renata Kallosh (Stanford University, USA)  
Andrei Linde (Stanford University, USA)  
Hugh Montgomery (Jefferson Lab, USA)  
Carlos Montufar (USFQ, Ecuador)  
Adam Riess (Johns Hopkins University, USA)  
Kobun Tachibana (JGK, Japan)

**Local Committee**  
Rudy Collatz (IA, Guadeloupe)  
Manuel Clergue (IAP, Guadeloupe)  
Rosette Dero (IAP, Guadeloupe)  
Alain Piétrus (IA, Guadeloupe)  
Sylvain Werman (JAL, Physique-Océan)

More information and registration:  
<https://indico.cern.ch/event/801461/overview>  
[edu.2020@cern.ch](mailto:edu.2020@cern.ch)

World Summit conferences:  
Galapagos (June 2006) USFQ  
Guadeloupe (June 2018) UAG  
Guadeloupe (March 2020) UAG

The main goal is to discuss progress and future directions related to outstanding issues, both in Cosmology and Particle Physics.



2<sup>nd</sup> WORLD PHYSICS SUMMIT:  
EXPLORING THE DARK SIDE  
OF THE UNIVERSE

GUADELOUPE ISLANDS  
25-29 JUNE 2018

**SCIENTIFIC PROGRAMME**  
• Dark Matter  
• Dark Energy  
• Neutrino Cosmology  
• Black Holes  
• Gravity

**ORGANIZING COMMITTEE**  
Betty Collatz (Czech Technical University Prague)  
Edgar Cordero (USFQ Ecuador)  
Hélène Courtois (IPNL, Lyon France)  
John Ellis (King's College London and CERN Switzerland)  
Kazuhiko Hara (University of Tsukuba Japan)  
Bjoern Penning (USFQ Ecuador)  
Carlos Montufar Freire (USFQ Ecuador)  
Pierre Petit (CNRS/IN2P3 France)  
Christophe Royon (University of Kansas USA)  
Brianna VanDon (McGill University Montreal Canada)

**ADVISORY COMMITTEE**  
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Eckhard Elber (CERN and DESY)  
Paul Grannis (State University of New York)  
Karl Jakobs (University of Freiburg)  
Takashi Kajita (University of Tokyo)  
Yang Kee Kim (University of Chicago)  
Hugh Montgomery (Thomas Jefferson National Accelerator Facility)  
Adam Riess (Johns Hopkins University)  
Kobun Tachibana (Institute of Particle and Nuclear Physics KEK)  
Tejinder Virdee (Imperial College London)  
Guy Wornat (University of Paris-Saclay)

**LOCAL COMMITTEE**  
Rudy Barboux (Guadeloupe district)  
Rudy Collatz (Faculty of Sciences UA Guadeloupe)  
Manuel Clergue (Faculty of Sciences UA Guadeloupe)  
Alain Piétrus (Faculty of Sciences UA Guadeloupe)

More information and registration:  
<https://indico.cern.ch/event/648016>  
[edu2018@cern.ch](mailto:edu2018@cern.ch)



Galapagos World Summit on "Physics Beyond the Standard Model"



## Scientific programme

Dark Matter

Dark Energy

Neutrino Cosmology

Gravity and Modified Gravity

Gravitational Waves

Multi-messenger astronomy

Primordial universe, inflation and CMB

Tension between the Early and the Late Universe

## Organizing Committee

Xavier Bertou (CNEA, Argentina)

Betty Calpas (DESY, Germany)

Laurent Chevalier (CEA Saclay, France)

Hélène Courtois (IPNL, France)

Marian Douspis (IAS, France)

Gilles Gerbier (Queen's University, Canada)

Bruce Hoeneisen (USFQ, Ecuador)

Marine Kuna (LPSC, France)

Bjoern Penning (University of Brandeis, USA)

Pierre Pétrouff (LAL, France)

Christophe Royon (KU, USA)

Aaron Vincent (Queen's University, Canada)

Matthieu Vivier (CEA Saclay, France)

**Betty Calpas**

**Hélène Courtois**

**Gilles Gerbier**

**Bruce Hoeneisen**

**Bjoern Penning**

**Christophe Royon**

**Aaron Vincent**

## Advisory Committee

Barry C. Barish (Caltech, USA)

François Bouchet (IAP, Paris)

Laura Baudis (UZH, Switzerland)

Françoise Combes (LERMA, Paris)

Paul Grannis (University of Stony Brook, USA)

Karl Jakobs (University of Freiburg, Germany)

Takaaki Kajita (University of Tokyo, Japan)

Renata Kallosh (Stanford University, USA)

Andrei Linde (Stanford University, USA)

Hugh Montgomery (Jefferson Lab, USA)

Carlos Montúfar (USFQ, Ecuador)

Adam Riess (John Hopkins University, USA)

Katsuo Tokushuku (KEK, Japan)

## Local Committee

Rudy Calif (UA, Guadeloupe)

Manuel Clergue (UA, Guadeloupe)

Mariette Dino (UA, Guadeloupe)

Alain Piétrus (UA, Guadeloupe)

Sylviane Wernert-Pétrouff (Physique-Outremer)

## More information and registration:

<https://indico.cern.ch/event/801461/overview>

edsu.2020@cern.ch



## The program consists in 6 sessions:

- Session 1: **Cosmology**

Marian Douspis (marian.douspis@ias.u-psud.fr)

Bruce Hoeneisen (bhoeneisen@usfq.edu.ec)

Pierre Pétroff (petroff@lal.in2p3.fr)

- Session 2: **Dark Matter**

Laurent Chevalier (laurent.chevalier@cea.fr)

Xavier Bertou (bertou@gmail.com)

Aaron Vincent (aaron.vincent@queensu.ca)

- Session 3: **Neutrino cosmology**

Matthieu Vivier (Matthieu.Vivier@cea.fr)

- Session 4: **Gravity, Gravitational Waves**

Pierre Pétroff (petroff@lal.in2p3.fr)

- Session 5: **New Physics Hints?**

Christophe Royon (christophe.royon@ku.edu)

Bjoern Penning (penning@brandeis.edu)

## Today program:

### Cosmology session (1)

10:30 - 11:00 (25'+5') Unveiling Universe Grand Design With Large Scale Structure

Hélène Courtois

11:00 – 11:35 (30'+5') Exoplanet Searches: Prospects and Future Michel Mayor

11:35 – 12:05 (25'+5') Last Results and Questions From Planck Silvia Galli **Video +5h**

12:05 – 12:30 (20'+5') Where are the Bayons ? Marian Douspis **Video +5h**

### **12:30-13:30 lunch**

13:30 – 13:55 (20'+5') Tension from LSS and CMB Henk Hoekstra

13:55 – 14:20 (20'+5') The Role of Magnetic Fields in Cosmology Mathieu Langer

14:20 – 14:50 (25'+5') Hubble Constant at the Late Universe Sherry Suyu

14:50 – 15:15 (20'+5') How to Resolve the Hubble Tension Vivian Poulain

15:15 – 15:45 (25'+5') Large Scale Structure Formation Leonardo Senatore

15:45 – 16:10 (20'+5') Tension from Clusters and CMB Resolved ? Laura Salvati

16:10 – 16:40 (25'+5') Cosmology with DES Year-1 data: from 3x2pt analyses to the CMB imprint of cosmic voids Pauline Vielzeuf

Bus UAG 17:00 Fleur d'Epée 17:15 Salako 17:30

### **Welcome Cocktail in Memorial ACTe 18:30**

Bus Salako 18:00 Fleur d'Epée 18:15 MEMORIAL ACTe 18:30

Return 21:00

# Physique Outremer

The non-profit organization Physique-Outremer ensures the practical organization with the financial support of the Ministry of Overseas Departments, the Regional Council and the Institut d'Astrophysique de Paris (IAP) and your own contributions of course !

The University of Antilles is hosting the EDSU2020 conference: Thanks a lot to the President Eustase Janky and all the staff of the university for the help in the practical organization. A great thanks to the staff of the council region Also.

And last but not least a very great thanks to Mr Olivier Serva for his highly efficient support since the early beginning of the preparation of the conference.

