

EDSU2020 Timetable

Monday, March 9th

Bus Salako hotel 07:45 Fleur d'Epée hotel 08:00 UAG 08:15

08:00 – 09:00 Registration

09:00 – 09:15 Welcome Regional Council **Mr Olivier Serva** Member of the French Parliament

09:15 – 09:30 Welcome University of Antilles Guadeloupe (UAG) **Prof. Alain Piétrus** Dean of the Sciences Faculty

09:30 – 09:45 Welcome EDSU2020 organizing committee **Pierre Pétroff**

09:45 – 10:00 General Information **Betty Calpas**

10:00 coffee-break

10:30 **Beginning of the scientific 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**

12:05 – 12:30 (20'+5') Tension from Clusters and CMB Resolved ? **Laura Salvati**

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') Where are the Bayons ? **Marian Douspis**

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

Tuesday, March 10h

Bus Salako 07:45 Fleur d'Épée 08:00 UAG 08:15

GW/Gravitation Session

08:30 – 09:05 (30'+5') LIGO and future GW detectors: Status and Prospects **Patrick Brady**

09:05 – 09:30 (20'+5') VIRGO Status and Prospects **Johannes van den Brand**

09:30 – 09:55 (20'+5') KAGRA Status and Prospects **Keiko Kokeyama**

09:55 – 10:25 Coffee Break

10:25 – 10:50 (20'+5') Imaging Black Holes with Event Horizon Telescope **Dominic Pesce**

10:50 – 11:15 (20'+5') Detailed Analysis of GW Signal: Is Black Hole Spectroscopy Feasible ?

Maximilio Isi

11:15 – 11:40 (20'+5') Super Massive Black Holes: Prospects and Future

Kianusch Merhgan

11:40 – 12:10 (25'+5') Multimessenger Astronomy with GW **Imre Bartos**

12:10 – 12:35 (20'+5') Dark Gravity Confronted to SN, BAO and the CMB **Frederic Henry-Couannier**

12:35 – 13:35 Lunch

13:35 – 14:15 (35'+5') Review on Optomechanical Tests on Quantum Gravitation

Pierre-François Cohadon

14:15 – 14:40 (20'+5') Experiment for Testing the Quantum Behavior of Gravity

Sougato Bose

Neutrino Puzzle session (1)

14:40 – 15:10 (25'+5') Review on Neutrino Masses and Mixing **Alexei Smirnov**

15:10 -15:35 (20'+5') Cosmological Constraint on Neutrino Masses **Bruce Hoeneisen**

15:35 – 16:05 (25'+5') Prospects on Short and Long Baseline Neutrino Oscillation Experiments **Stefan Soldner-Rembold**

Bus UAG 16:30 Fleur d'Épée 17:00 Salako 17:15

Wednesday March 11th

Bus Salako 07:45 Fleur d'Épée 08:00 UAG 08:15

Neutrino Puzzle Session (2)

08:30 – 08:55 (20'+5') Status and Prospects on eV Sterile Neutrino Searches [Ivan Martinez Soler](#)

08:55 – 09:20 (20'+5') KATRIN: Recent Results and Future Perspectives [Susanne Mertens](#)

09:20 – 09:45 (20'+5') Neutrinoless Double Beta Decay: Status and Prospects [Kota Ueshima](#)

09:45 – 10:10 (20'+5') CEnuNS: Coherent Elastic Neutrino-Nucleus Scattering [Thierry Lasserre](#)

10:10 – 10:40 Coffee Break

10:40 – 11:15 (30'+5') Neutrino Astronomy [Antoine Kouchner](#)

Dark Matter session (1)

11:15 – 11:45 (25'+5') Exploring the theory space [Celine Boehm](#)

11:45 – 12:05 (15'+5') SUSY Dark Matter Searches [Antonia Strübig](#)

12:05 – 12:25 (15'+5') Non SUSY Dark Matter Searches [Greg Landsberg](#)

12:25 – 13:30 Lunch

13:30 – 13:50 (15'+5') Noble gases: traditional WIMP searches [Carla Macolino](#)

13:50 – 14:20 (25'+5') Light Dark Matter review [Gilles Gerbier](#)

14:20 – 14:40 (15'+5') Sub-GeV Dark Matter in Silicon [Guillermo Fernandez Moroni](#)

14:40 – 15:00 (15'+5') Directional Dark Matter and the neutrino floor [Elisabetta Baracchini](#)

15:00 – 15:30 (25'+5') Novel searches for Dark Matter [Thomas Edwards](#)

15:30 – 15:55 (20'+5') Orbital Evidences for Dark Matter Free Milky-Way Dwarf-Spheroidal Galaxies [François Hammer](#)

Bus UAG 16:30 Fleur d'Épée 16:45 Salako 17 :00

Conference Dinner 18 :30 at Fleur d'Épée

Thursday March 12th

Bus Salako 07:45 Fleur d'Epée 08:00 UAG 08:15

New Physics Hints Session (1)

08:30 – 09:00 (25'+5'): Early Late Universe H0 Tension **Dillon Brout**

09:00 – 09:30 (25'+5'): Cosmic Rays **Hans Dembinski**

09:30 – 10:00 (25'+5'): The Agile project – **Alexander Novikov**

10:00 – 10:30 coffee break

10:30 – 11:00 (25'+5'): Reactor Neutrino Anomalies **Antonin Vacheret**

11:00 – 11:30 (25'+5'): Accelerator Neutrino Anomalies **Teppei Katori**

11:30 – 12:10 (35'+5'): Toward the Frontier of Particle Physics with the Muon g-2 Experiment **Eremey Valetov**

12:10 – 12:40 (25'+5'): B-physics anomalies **Marco Santimaria**

12:40-13:40 lunch

13:40 – 14:10 (25'+5'): LHC Exotica **Bob Hirosky**

14:10 – 14:40 (25'+5'): ALPS & DM using Protons **Christophe Royon**

Dark Matter session (2)

14:40 – 15:10 (25'+5') Steps Beyond the Standard Model: Searching for Simplicity

Mikhail Shaposhnikov

15:10 – 15:30 (15'+5') The SHiP experiment at the CERN beam-dump facility

Markus Cristinziani

15:30 – 15:50 (15'+5') Dark sector searches with BABAR **Georges Vasseur**

15:50 – 16:10 (15'+5') Dark Sector Searches at Belle II **Michel Bertemes**

16:10 – 16:40 (25'+5') Axions as dark matter candidates **Karl van Bibber**

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

Friday March 13th

Bus UAG 07 :45 Fleur d'Epée 08:00 Salako 08:15

Dark Matter session (3)

08:30 – 09:00 (25'+5') Overview: Astrophysical Knowns and Unknowns in DM **Lina Necib**

09:00 – 09:30 (25'+5') Indirect detection: traditional searches, the GC excess **Rebecca Leane**

09:30 – 10:00 (25'+5') Searching for DM in the Early Universe **Sergio Palomares-Ruiz** **IFIC Valencia**

10:00 – 10:30 Coffee Break

10:30 – 10:55 (20'+5') Searching for DM in the late Universe **Sarah Schon**

10:55 – 11:20 (20'+5') Dark Matter in stars, supernovae **Aaron Vincent**

11:20 – 11:50 (25'+5') What is Dark Matter made of ? **Bruce Hoeneisen**

11:50 – 12:15 (20'+5') Constraining Dark Matter Properties with the Inter-Galactic Medium and other cosmological probes **Riccardo Murgia**

12:15 – 13:30 Lunch

Cosmology Session (2)

13:30 – 14:00 (25'+5') Recent Progress on Dark Energy Models **Arman Shafiloo**

14:00 – 14:25 (20'+5') Inflationary Cosmology **Raphael Flauger**

14:25 – 14:50 (20'+5') String Theory and Inflation Interplay **Eva M. Silverstein**

15:00 – 16:00 Concluding Remarks

Bus UAG 16:30 Fleur d'Epée 17:00 Salako 17:15

16:00 **end of EDSU2020**

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