

## EDSU2022 Agenda with timing November 11<sup>th</sup> 2022

78 speakers COSMO:21 GW/G: 6 HEP: 19 DM: 21 Neutrinos: 11

### Sunday November 6<sup>th</sup>

17:00 - Registration

18:00 – 18:15 Welcome **Matthieu Renaud**

18:15 – 18:55 Research Activities @ La Réunion **Emeric Le Floc'h**

19:00 **Cocktail Reception**

### Monday November 7<sup>th</sup>

07:30 – 08:30 Registrations and Welcome

**COSMO1 60' = 1h 2 talks**

08:30-09:00 Cosmic-Flows: Exploring Gravitation on Large Scales

**Helene Courtois** [helene.courtois@univ-lyon1.fr](mailto:helene.courtois@univ-lyon1.fr) IPNL, University Lyon-I, France

09:00-09:30 The Search for possible extraterrestrial life: Opportunities and Challenges

**Michel Mayor** [Michel.Mayor@unige.ch](mailto:Michel.Mayor@unige.ch) University of Geneva CH

09:30 – 10:00 Coffee break

**COSMO2 130' = 2h10' 5 talks**

10:00 - 10:30 Dark Energy : a Cosmological Constant or Something Else ?

**Jean-Pierre Luminet** [jean-pierre.luminet@obspm.fr](mailto:jean-pierre.luminet@obspm.fr) LAM Marseille, France

10:30 – 10:55 Cosmology from the hot Gas in the Universe

**Marian Douspis** [marian.douspis@ias.u-psud.fr](mailto:marian.douspis@ias.u-psud.fr) France

10:55 – 11:20 Galaxy Alignment across the Cosmic Web

**Sandrine Codis** [Sandrine.codis@gmail.com](mailto:Sandrine.codis@gmail.com) CEA ,France

11:20- 11:45 Galaxy proto-clusters from Cosmic Dawn to Cosmic Noon

**Herve Dole** [herve.dole@universite-paris-saclay.fr](mailto:herve.dole@universite-paris-saclay.fr) IAS University of Paris-Saclay

11:45-12:10 The CMB Frontier

**François Bouchet** [bouchet@iap.fr](mailto:bouchet@iap.fr) IAP, Paris, France

12:15-13:45 Lunch

## **GW/G 1 105' = 1h45 4 talks**

**13:45-14:15 LIGO and future GW detectors: Status and Prospects**

**Patrick Brady** [prbrady@uwm.edu](mailto:prbrady@uwm.edu) University of Wisconsin-Milwaukee

**14:15-14:40 VIRGO Status and Prospects**

**Nicolas Arnaud** [narnaud@lal.in2p3.fr](mailto:narnaud@lal.in2p3.fr) IJCLab Paris-Saclay University

**14:40-15:05 KAGRA Status and Prospects**

**Takafumi Ushiba** [ushiba@icrr.u-tokyo.ac.jp](mailto:ushiba@icrr.u-tokyo.ac.jp) ICRR Tokyo University Japan

**15:05 – 15:30 LISA Status and Prospects**

**Astrid Lamberts** [astrid.lamberts@oca.eu](mailto:astrid.lamberts@oca.eu) OCA France

**15:30 – 16:00 Coffee Break**

## **HEP1 90' = 1h30 4 talks**

**16:00 – 16:30 Experimental Review on Higgs**

**Paolo Azzurri** [paolo.azzurri@cern.ch](mailto:paolo.azzurri@cern.ch) INFN Italy

**16:30 - 16:50 Hints of BSM Physics in CMS**

**Sabino Meola** [sabino.meola@cern.ch](mailto:sabino.meola@cern.ch) INFN Italy

**16:50 – 17:10 Hints of BSM Physics in ATLAS**

**Antonia Struebig** [antonia.struebig@cern.ch](mailto:antonia.struebig@cern.ch) University of Stockholm  
Sweden

**17:10 -17:30 Electroweak measurement through VBS at LHC**

**Shalu Solomon** [shalu.solomon@cern.ch](mailto:shalu.solomon@cern.ch) University of Freiburg Germany

## **Tuesday November 8<sup>th</sup>**

### **DM1 110' = 1h50 5 talks**

**08:00-08:25 Experimental Searches for sub-GeV Dark Matter**

**Francisco Vazquez De Sola Fernandez** [vazquez@subatech.in2p3.fr](mailto:vazquez@subatech.in2p3.fr)  
Subatech University of Nantes, Fr

**08:25-08:50 Status of Axions and Alps searches**

**Bela Majorovits** [belam@mpg.de](mailto:belam@mpg.de)

**08:50- 09:15 Enlightening Cold Dark Matter's darkest side via non-minimal coupling**

**Giovanni Gandolfi** [giovanni.gandolfi@sissa.it](mailto:giovanni.gandolfi@sissa.it) SISSA Italy

**09:15 – 09:30 Search for Dark Matter annihilation with a combined analysis of dwarf spheroidal galaxies from Fermi-LAT, HAWC, H.E.S.S., MAGIC and VERITAS**

**Daniel Kerszberg** [dkerszberg@ifae.es](mailto:dkerszberg@ifae.es) IFAE Barcelona Spain

**09:30 -09:50 Dark Matter Search in BABAR**

**George Vasseur** [George.Vasseur@cern.ch](mailto:George.Vasseur@cern.ch) Université Paris-Saclay France

**09:50 – 10:20 Coffee Break**

**NEUTRINO1 115' = 1h55 4 talks**

**10:20-10:45 Neutrino Masses and Mixing**

**M.C. Gonzalez-Garcia** [concha@icc.ub.edu](mailto:concha@icc.ub.edu) Stony Brook University US and University of Barcelona SP

**10:45-11:25 Long Baseline Experiments in Japan: from T2K to Hyper-K**

**Margherita Buizza Avanzini** [buzza@lir.in2p3.fr](mailto:buzza@lir.in2p3.fr) Leprince-Ringuet Laboratory France

**11:25-11:50 Results from Long Baseline Experiments Future DUNE**

**Albert de Roeck** [deroeck@gmail.cern.ch](mailto:deroeck@gmail.cern.ch) CERN CH

**11:50-12:15 Coherent Elastic Neutrino-Nucleus Scattering**

**Kate Scholberg** [kate.scholberg@duke.edu](mailto:kate.scholberg@duke.edu) University of Duke US

**12:15 – 13:45 Lunch**

**HEP2 125' = 2h05 6 talks**

**13:45 – 14:15 Beauty Hadrons at LHCb : New Physics Exploration and Lepton Flavour Universality**

**Monica Pepe Altarelli** [monica.pepe.altarelli@cern.ch](mailto:monica.pepe.altarelli@cern.ch) CERN CH

**14:15 – 14:35 Semitauonic b Decays in LHCb: Results and Prospects**

**Guy Wormser** [wormser@lal.in2p3.fr](mailto:wormser@lal.in2p3.fr) IJCLab Orsay France

**14:35 – 14:50 Test of Lepton Flavour Universality with the LHCb Detector**

**Christina Agapopoulou** [christina.agapopoulou@cern.ch](mailto:christina.agapopoulou@cern.ch) LPNHE France

**14:50 – 15:10 Latest Results from BELLE II**

**Steven Robertson** [steven.robertson@mcgill.ca](mailto:steven.robertson@mcgill.ca) McGill Canada

**15:10 – 15:25 Semileptonic and Leptonic B Physics at Belle II**

**Priyanka Cheema** [pche3675@uni.sydney.edu.au](mailto:pche3675@uni.sydney.edu.au) University of Sydney Au

**15:25 – 15:50 New Physics from B Decays (theory)**

**Javier Fuentes** [javier.fuentes@ugr.es](mailto:javier.fuentes@ugr.es) University of Granada Spain

**15:50 – 16h20 coffee break**

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**GW/G2 40' = 2 talks**

**16:20 – 16:35 Gravitational waves propagation as a probe of fundamental physics**

**Leila Haegel** [leila.haegel@apc.in2p3.fr](mailto:leila.haegel@apc.in2p3.fr) APC Pais France

**16:35 – 17:00 Quantum Gravity**

**Jeffrey Murugan** [jeffrey.murugan@uct.ac.za](mailto:jeffrey.murugan@uct.ac.za) University of Cape-Town  
South Africa

**Wednesday November 10th**

**07:00 – 12:15 Sightseeing tour of the MAIDO**

**12:15 – 13:45 Lunch**

**DM2 120' = 2h 6 talks**

**13:45 – 14:00 Light dark matter vis-à-vis non-standard mechanisms and its possible probes**

**Sreemanti Chakraborti** [chakraborti@lapth.cnrs.fr](mailto:chakraborti@lapth.cnrs.fr) LAPTH Annecy France

**14:00 14:25 Measurements of Warm Dark Matter Properties**

**Bruce Hoeneisen** [bhoeneisen@usfq.edu.ec](mailto:bhoeneisen@usfq.edu.ec) UFSQ Ecuador

**14:25-14:50 Manifesting Hidden Dynamics of a sub-Component Dark Matter**

**Seodong Shin** [sshin@jbnu.ac.kr](mailto:sshin@jbnu.ac.kr) Jeonbuk National University Korea

**14:50-15:15 Earth and Celestial Bodies as Dark Matter Laboratories ?**

**NingQiang Song** [Ningqiang.Song@liverpool.uk](mailto:Ningqiang.Song@liverpool.uk) University of Liverpool UK

**15:15 – 15:30 Not a jet all the way: a search for semi-visible jets in nonresonant production mode in ATLAS**

**Sukanya Sinha** [sukanya.sinah@cern.ch](mailto:sukanya.sinah@cern.ch) University of Witwatersrand SA

**15:30 – 15:45 The Radon daughter implementation on the surface of the rare events detector components**

**Ali Dastgheibi Fard** [dastgheibi@lpsc.in2p3.fr](mailto:dastgheibi@lpsc.in2p3.fr) LPSC Grenoble France

**15:45 – 16 :15 Coffee Break**

**COSMO3 125' = 2h05 5 talks**

**16:15 – 16:40 Hubble Constant at the Late Universe**

**Sherry Suyu** [suyu@mpa-garching.mpg.de](mailto:suyu@mpa-garching.mpg.de) TUM/MPA Germany

**16:40 – 17:05 Review on eBoss results and implications for H0 tension and the reported hints of tension in  $\sigma_8$**

**Kyle Dawson** [kdawson@astro.utah.edu](mailto:kdawson@astro.utah.edu) University of Utah

**17:05 – 17:30 Tension between the early and the late Universe on the Hubble constant measurements**

**Lucas Macri** [lmacri@tamu.edu](mailto:lmacri@tamu.edu) Texas A&M USA

**17:30 – 17:55 Going down the rabbit hole of the Hubble constant tension**

**Biagio De Simone** [bdesimone@unisa.it](mailto:bdesimone@unisa.it) University of Salerno Italy

**17:55 – 18:20 H0 from the integration of 7 methodologies**

**Brent Tully** [tully@ifa.hawaii.edu](mailto:tully@ifa.hawaii.edu) University of Hawaii

**19:00- 21:00 Conference Dinner**

## Thursday November 10<sup>th</sup>

### **DM3 95' = 1h35' 4 talks**

**08:25 – 08:45 LUX-ZEPLIN (LZ) First Results and Outlook**

**Alvine Kamaha** [akamaha@physics.ucla.edu](mailto:akamaha@physics.ucla.edu) UCLA Los Angeles US

**08:45 – 09:10 XENONnT Status and Prospects**

**Diego Ramirez Garcia** [diego.ramirez@physik.uzh.ch](mailto:diego.ramirez@physik.uzh.ch) University of Zurich CH

**09:10 – 09:35 Status of Direct Dark Matter Searches with Scintillators**

**Federico Scutti** [fscutti@swin.edu.au](mailto:fscutti@swin.edu.au) Swinburne University of Technology AU

**09:35 – 10:00 Dark Stars**

**Pearl Sandick** [sandick@physics.utah.edu](mailto:sandick@physics.utah.edu) University of Utah US

**10:00 – 10:30 Coffee Break**

### **NEUTRINO2 90' = 1h30 4 talks**

**10:30 – 10:55 Short Baseline Experiments (Nova Near Detector)**

**Greg Pawloski** [pawloski@umn.edu](mailto:pawloski@umn.edu) University of Minnesota

**10:55 – 11:20 Reactor Experiments (JUNO)**

**Katharina von Sturm** [katharina.vonsturm@pd.infn.it](mailto:katharina.vonsturm@pd.infn.it) INFN Italy

**11:20 – 11:45 Neutrino Astronomy (IceCube, ANTARES, KM3NeT)**

**Antoine Kouchner** [kouchner@apc.in2p3.fr](mailto:kouchner@apc.in2p3.fr) Laboratory AstroParticule and Cosmology Paris

**11:45 – 12:00 The LEGEND experiment to search for neutrinoless double beta decay**

**Pin-Jung Chiu** [pin-jung.chiu@physik.uzh.ch](mailto:pin-jung.chiu@physik.uzh.ch) University of Zurich Switzerland

**12:15 – 13:45 Lunch**

### **COSMO4 140' = 2h20' 6 talks**

**13:45 – 14:10 Astroparticle Constraints from Cosmic Reionization and Primordial Galaxy Formation**

**Andrea Lapi** [lapi@sissa.it](mailto:lapi@sissa.it) SISSA Italy

**14:10 – 14:35 Exploring Cosmic Dawn with the Hydrogen Epoch of Reionization Array (HERA)**

**Adélie Gorce** [adelie.gorce@mcgill.ca](mailto:adelie.gorce@mcgill.ca) McGill Space Institute Canada

**14:35 – 15:00 Cosmology and Neutrino Physics with the Lyman-alpha forest: Constraints from Cosmological Simulations**

**Frederic Bournaud** [frederic.bournaud@cea.fr](mailto:frederic.bournaud@cea.fr) CEA France

**15:00 – 15:25 Evolution of the Stellar Mass Function across cosmic time and its Connection with the Growth of Dark Matter Haloes**

**Olivier Ilbert** [olivier.ilbert@lam.fr](mailto:olivier.ilbert@lam.fr) LAM France

**15:25-15:50 Fast Radio Bursts**

**Amanda Weltman** [Amanda.weltman@uct.ac.za](mailto:Amanda.weltman@uct.ac.za) University of Cape-Town

**15:50 – 16:05 Experimental Modelling of Jupiter's Fluid Dynamics**

**Daphné Lemasquier** [lemasquier.pro@protonmail.com](mailto:lemasquier.pro@protonmail.com) University of St

**16:05 – 16:30 Coffee Break**

### **HEP3 85' = 1h25 4 talks**

**16:30 – 17:00 Experimental Overview on g-2 Experiments**

**Chris Polly** [polly@fnal.gov](mailto:polly@fnal.gov) FNAL US

**17:00 – 17:30 Standard Model Prediction for the Muon g-2**

**Laurent Lellouch** [laurent.lellouch@univ-amu.fr](mailto:laurent.lellouch@univ-amu.fr) CPT Marseille Fr

**17:30 – 17:45 AGILE project (cosmic ray measurement)**

**Florian Gautier** [florian.gautier.borrallo@gmail.com](mailto:florian.gautier.borrallo@gmail.com) University of Kansas US

**17:45 – 18:05 ALICE Trigger DAQ**

**Filippo Costa** [filippo.costa@cern.ch](mailto:filippo.costa@cern.ch) CERN CH

### **Friday November 11<sup>th</sup>**

### **NEUTRINO3 65' = 1h05 3 talks**

**08:25 – 08:50 Neutrinoless Double Beta Decay**

**Bjoern Lenhart** [bjoernlenhart@lbl.gov](mailto:bjoernlenhart@lbl.gov) Berkeley Lab USA

**08:50 – 09:15 Neutrino Mass Measurement : Latest Results from Katrin**

**Thierry Lassere** [thierry.lassere@cea.fr](mailto:thierry.lassere@cea.fr) IRFU CEA France

**09:15 – 09:30 Something from nothing: Cosmic voids and their sensitivity to neutrinos**

**Pauline Vielzeuf** [vielzeuf@cprm.in2p3.fr](mailto:vielzeuf@cprm.in2p3.fr) CPPM Marseille France

09:30 – 10:00 Coffee Break

**HEP4 125' = 2h05 5 talks**

10:00 – 10:30 Review on antimatter Experiments

**Chloe Malbrunot** [chloe.m@cern.ch](mailto:chloe.m@cern.ch) CERN CH

10:30 - 10:55 Faser Experiment at LHC

**Jamie Boyd** [Jamie.boyd@cern.ch](mailto:Jamie.boyd@cern.ch) CERN CH

10:55 – 11:20 Effective Field theory analysis at LHC

**Tae Hyoun Park** [thpark@physics.utoronto.ca](mailto:thpark@physics.utoronto.ca) University of Toronto Canada

11:20 – 11:35 Search for long-lived particles in ATLAS with displaced vertex signatures in multi-jet-triggered events

**David Rouso** [david.rouso@cern.ch](mailto:david.rouso@cern.ch) University of Cambridge UK

11:35 – 12:05 New Trends in Detectors R&D

**Andrea Perrotta** [Andrea.Perrotta@bo.infn.it](mailto:Andrea.Perrotta@bo.infn.it) INFN Italy

12:15 – 13:45 Lunch

**DM4 120' = 2h 6 talks**

13:45 – 14:10 KeV-Sterile Neutrino Dark Matter

**Susanne Mertens** [susanne.mertens@tum.de](mailto:susanne.mertens@tum.de) Technical University of Munich Germany

14:10 – 14:35 Status of Satellite Experiment to Measure very low Energy antiprotons

**Stephan Paul** [Stephan.Paul@cern.ch](mailto:Stephan.Paul@cern.ch) TUM Munich Germany

14:35 – 14:50 The COSINUS Experiment: Direct search for Dark Matter with Scintillating NaI Calorimeters

**Martin Stahlberg** [martin.stahlberg@cern.ch](mailto:martin.stahlberg@cern.ch) CERN

14:50- 15:10 A dark matter WIMP that can be detected and definitively identified with currently planned experiments

**Roland Allen** [allen@tamu.edu](mailto:allen@tamu.edu) TEXAS A&M University USA

15:10- 15:30 Novel Way to Probe Dark Sector at Colliders

**Deepak Kar** [deepak.kar@cern.ch](mailto:deepak.kar@cern.ch) University of Witwatersrand SA

15:30-15:45 The CRESST III Dark Matter Search: Status and Outlook

**Angelina Kinast** [angelina.kinast@tum.edu](mailto:angelina.kinast@tum.edu) Technical University of Munich Germany

15:45 – 16:15 Coffee Break

**COSMO5 45' 3 talks**

**16:15 – 16:30 The power of high-redshift FRBs**

**Nina Sartorio** [nss48@cam.ac.uk](mailto:nss48@cam.ac.uk) Cambridge University UK/Ghent University  
Belgium

**16:30 – 16:45 Constraining the mass and redshift evolution of the hydrostatic  
mass bias using the gas mass fraction in galaxy clusters**

**Raphael Wicker** [raphael.wicker@ias.u-psud.fr](mailto:raphael.wicker@ias.u-psud.fr) IAS Orsay France

**16:45- 17:00 Cracks in our Understanding of the Universe**

**Bruce Hoeneisen** [bhoeneisen@usfq.edu.ec](mailto:bhoeneisen@usfq.edu.ec) UFSQ Ecuador

***End of the EDSU2022 Conference***

**But more activities on Saturday !**

**Saturday November 12<sup>th</sup>**

**07:30 – 14:30 Outing to Volcano**

**21:00 Astronomy Night at Observatory of Makes**