



ICTP
SAIFR

International Centre
for Theoretical Physics
South American Institute
for Fundamental Research

CONFERENCE OPENING

SILAFAE EXPRESS

12 $\frac{3}{4}$

NOVEMBER 8-12, 2021
by videoconference

Edgar F. Carrera (chair)
Universidad San Francisco de Quito, Ecuador

Enormous “thank you” to Rogério Rosenfeld (co-chair) and ICTP-SAIFR staff

About SILAF AE XII 3/4



- Traditional event that gathers the Latin American community in High Energy, Cosmology and AstroParticle Physics,
- Previous [SILAF AE XII](#) in Lima, Perú, November 2018
- SILAF AE XIII supposed to happen in Ecuador, November 2020
- Covid-19 pandemic left us in a mandatory *virtual* state.
- Ecuadorian LOC asked for a postponement until November 2022 (full-fledged and in person)
- SILAF AE IOC decided to accept but with a light “Express” SILAF AE XII ³/₄ to reunite and bring our community back together

November 8-12, 2021 (by videoconference)

Zoom ID: 892 3901 2974

Password: saifr

CODE OF CONDUCT (Zoom protocol): click [HERE](#)

Invited Speakers:

- **Ulisses Barres** (CBPF, Brazil): *The Southern Wide Field Gamma Ray Observatory (SWG0)*
- **Nicolás Bernal** (Antonio Nariño University, Colombia): *Dark Matter in the Time of Primordial Black Holes*
- **Enrico Bertuzzo** (USP, Brazil): *Relaxion physics*
- **Carla Bonifazi** (UFRJ, Brazil & ICAS, Argentina)
- **Hugo Camacho** (IFT-UNESP/ICTP-SAIFR, Brazil)
- **Marcela Carena** (University of Chicago, USA)
- **Claudio Dib** (Universidad Tecnica Federico Santa Maria, Chile)
- **Cora Dvorkin** (Harvard, USA)
- **Nayara Fonseca** (ICTP-Trieste, Italy): *Theory of Deep Learning and Physics*
- **André de Gouvêa** (Northwestern University, USA): *Neutrino Physics News*
- **Cristiane Jahnke** (UNICAMP, Brazil): *Highlights and perspectives from the ALICE experiment*
- **Marta Losada** (NYU, USA & Abu Dhabi U., United Arab Emirates): *Constraining Baryogenesis in the Standard Model EFT with dim 6 terms using LHC Higgs physics and EDMs*
- **Camila Machado** (DESY, Germany): *On-shell amplitudes for effective theories*
- **Michelangelo Mangano** (CERN, Switzerland)
- **Enrico Nardi** (INFN Frascati National Laboratories, Italy): *The axion: phenomenological implications and open theoretical problems*
- **Angela Olinto** (University of Chicago, USA): *Space Observatories for Ultrahigh Energy Astroparticles*
- **Massimo Passera** (University of Padova, Italy): *Muon g-2 and $\Delta\alpha$ connection*
- **Federico Sánchez** (CONICET, Argentina): *The Pierre Auger Observatory: results and perspectives*
- **Álvaro G. dos Santos Neto** (Universidade Federal do Triângulo Mineiro, Brazil):
- **Ettore Segreto** (UNICAMP, Brazil): *DUNE Experiment*
- **Andres Guillermo Delannoy Sotomayor** (University of Tennessee, USA)
- **Graziano Venanzoni** (INFN- Pisa, Italy): *First results from the Muon g-2 Experiment at Fermilab*
- **Song-Ming Wang** (Academia Sinica-Taipei, Taiwan): *ATLAS: recent results and future perspectives*
- **Matias Zaldarriaga** (Institute for Advanced Studies – Princeton, USA)

Contributed Talks:

- **Maria Eugenia Cabrera** (Universidad de San Carlos de Guatemala): *2HDM singlet portal to dark matter*
- **Joel Jones-Perez** (Pontificia Universidad Catolica del Peru (PUCP)): *Measuring sleptons at the ILC*
- **Andre Lessa** (CCNH, Brazil): *Learning the Next Standard Model from LHC data*
- **Diego Alejandro Restrepo Quintero** (Universidad de Antioquia, Colombia): *Effective Dirac neutrino masses*
- **Arturo Sanchez** (LAPP / CNRS, Switzerland): *Current trends in distributed Open Sciences in HEP*
- **Iván Sidelnik** (Instituto Balseiro, Argentina): *LAGO: the Latin American Giant Observatory, current status, projects and future perspectives.*
- **Daniel Tapia Takaki** (University of Kansas, USA): *The Inter-American Network of Networks of QCD challenges*
- **Reina Camacho Toro** (CNRS, France): *LA-CoNGA physics: an open science education collaboration between Latin America and Europe for High Energy Physics*

- Fully remote and exciting program
 - Thanks to members of IOC.
 - **Specially to Rogério Rosenfeld (co-chair) and ICTP-SAIFR staff**
- Nov 8 to Nov 12, 2021
- Schedule based on “Andean” time (Ecuador charing)
- Two blocks:
 - 15H00 - 17H15 (UTC)
 - Break
 - 19H00 - 21H00 (UTC)
- Please adhere to the usual [Zoom protocol](#)

Conference format and program



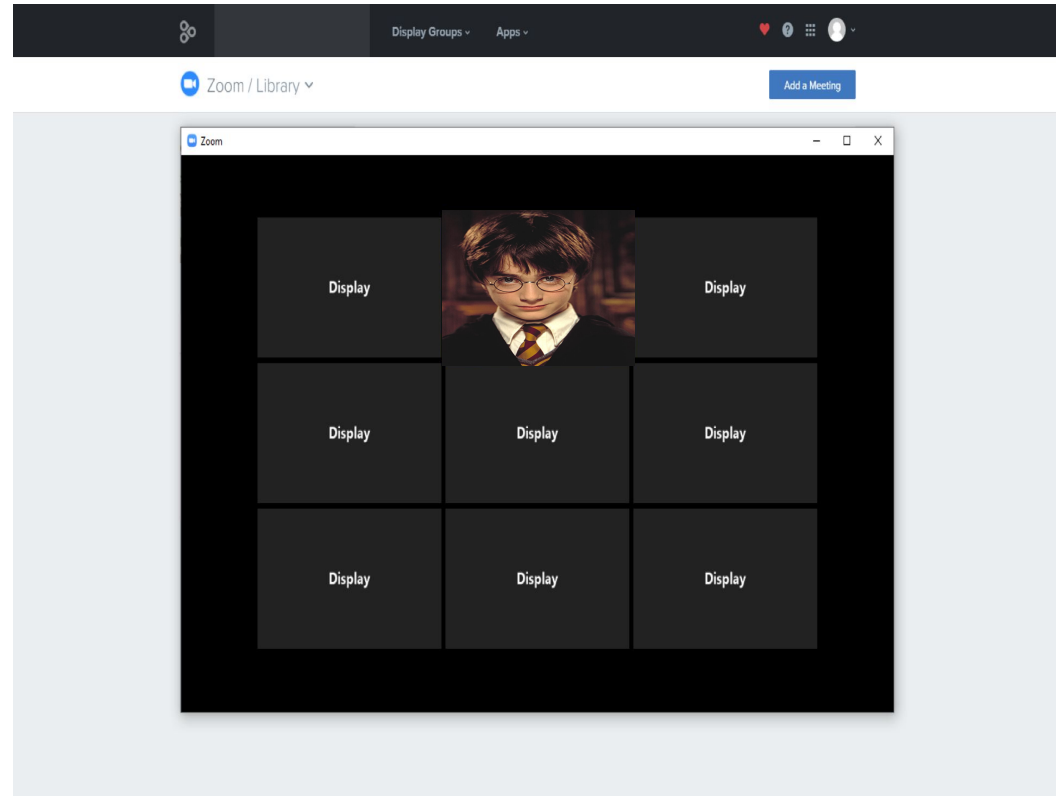
Time: 12:00 SP = 15:00 UTC

São Paulo local time	Monday November 8	Tuesday November 9	Wednesday November 10	Thursday November 11	Friday November 12
11:50-12:00	Opening				
	Chair: Daniel de Florian	Chair: Anamaría Font	Chair: Esteban Roulet	Chair: Jorge Alfaro	Chair: Tere Dova
12:00 - 12:30	M. Passera	U. Barres	C. Machado	A. Gomes dos Santos (LHCb)	C. Jahnke (ALICE)
12:45 - 13:15	N. Bernal	C. Dib	N. Fonseca	M. Losada	A. Sotomayor (CMS)
13:30 - 14:00	E. Bertuzzo	C. Bonifazi	E. Nardi	R. Camacho A. Sanchez	Song-Ming Wang (ATLAS)
14:15-16:00	Break	Break	Break	Break	Break
	Chair: Alfredo Aranda	Chair: João dos Anjos	Chair: Juan Ponciano	Chair: Alberto Gago	Chair: Sudhir Malik
16:00-16:30	M. Mangano	F. Sanchez	J. Jones-Perez A. Lessa	G. Venanzoni Muon (g-2)	M. Zalzarriaga
16:45-17:15	M. Carena	E. Segreto	D. Takaki I. Sidelnek	H. Camacho (DES)	C. Dvorkin
17:30-18:00	D. Restrepo M. Cabrera	A. Gouvêa	Posters	LASF4RI/Association	A. Olinto
18:00 - 18:10					Closing remarks

- **24 plenary talks: 30 min with plenty of time (15 min) for discussions and questions**
 - [Slack channel](#) to post questions/comments, etc.
- **8 contributed talks: 12 min + 3 min for questions** (dozens of proposals received but very limited time due to the remote format)
- **Poster session** with pre-recorded presentations and Zoom breakout rooms for questions/discussion
- **LASF4RI/HECAP Association creation meeting** on Thursday ([by-laws proposal](#) linked from the main page)

Conference group snapshots

- We will take Zoom snapshots **before the break tomorrow Tuesday, Nov 9.**
- Please turn on your camera if you wish to have your headshot taken for the conference group picture



Next SILAF AE 2022 in Ecuador



- In Ecuador, for the 1st time
- At Universidad San Francisco de Quito (USFQ)
- Hopefully in-person, full-fledged conference
- Quito is the main option but the Galápagos Islands have not been ruled out.
- You will be all most welcome!

Enjoy the conference and make lots of questions!