

# **XIV Latin American Symposium on High Energy Physics**

Ecuador, November 14 -18, 2022



Universidad San Francisco de Quito

# Opening and Welcome

- **María José Ramírez**  
Subsecretaria de Investigación, Innovación y Transferencia de Tecnología  
Secretaría de Educación Superior, Ciencia, Tecnología e Innovación
  
- **César Zambrano**  
Research Dean  
Universidad San Francisco de Quito

# Welcome to Quito and USFQ



# Timetable

## XIV Latin American Symposium on High Energy Physics

14–18 Nov 2022

America/Guayaquil timezone

Enter your search term



Overview

Organization

Scientific Program

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Reviewing Area

Timetable (detailed view)

Timetable (Indico style)

Contribution List

Book of Abstracts

Registration

Payment

Code of Conduct

Hotel Information

Travel, Safety and  
Tourism

Financial support for  
students

Venue map

Contact

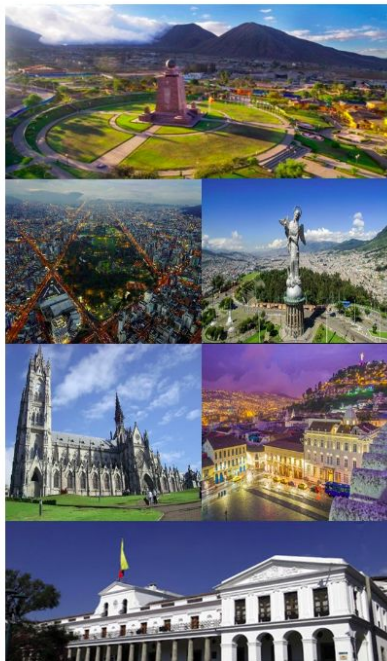
silafae-xiv@googlegru...

The **Latin American Symposium on High Energy Physics (SILAFAE)** is a traditional event that brings together the regional and international community of particle physics and related areas such as cosmology, gravitation and astroparticle physics. The conference has been the main regional hub for discussions on topics in the relevant fields, knowledge update and the exploration of new ideas and perspectives towards the future. The event also promotes the expansion of regional and international cooperation as well as the advancement of younger scientists and students.

The conference format consists of a series of plenary and parallel talks covering a range of theoretical and experimental topics. An active posters session is also planned.

This is the 14th edition of the SILAFAE series, which will take place in Ecuador, for the first time, at the beautiful campus of **Universidad San Francisco de Quito**.

The SILAFAE conference started in 1996 in Mérida, Mexico, then in San Juan-Puerto Rico (1998), Cartagena de Indias-Colombia (2000), Aguas de Lindoia-Brazil (2002), Lima-Peru (2004), Puerto Vallarta-Mexico (2006), San Carlos de Bariloche-Argentina (2008)



Session legend	
<span style="color: yellow;">●</span> Parallel session A	<span style="color: blue;">●</span> Parallel session B
<span style="color: red;">●</span> Plenary session	
08:00	<b>Sign-up and badge pick-up</b> <i>Alfium Los Leones/Main Hall, USFQ main campus</i> 08:00 - 08:40
	<b>Welcome and opening</b> <i>Maria José Ramírez et al.</i> <i>Calderón de la Barca theater, USFQ main campus</i> 08:40 - 09:00
09:00	<b>Astrophysics and fundamental physics from high-energy cosmic messengers</b> <i>Mauricio Bustamante</i> <i>Calderón de la Barca theater, USFQ main campus</i> 09:00 - 09:50
10:00	<b>SWGO: The project for a future wide-field gamma-ray observatory in South America</b> <i>Claudio Dib et al.</i> <i>Calderón de la Barca theater, USFQ main campus</i> 09:50 - 10:40
	<b>Coffee break</b> 10:40 - 11:10
11:00	<b>New physics tests in lepton decays</b> <i>Pablo Roig Garcés</i> <i>Calderón de la Barca theater, USFQ main campus</i> 11:10 - 12:00
12:00	<b>LHCb status and perspectives for Run 3</b> <i>Irina Nasteva</i> <i>Calderón de la Barca theater, USFQ main campus</i> 12:00 - 12:50
13:00	<b>Lunch break</b> 12:50 - 14:45
14:00	<b>Quantum thermodynamics of coronal heating</b> <i>Alejandro Jenkins</i> <b>Leptonic CP violation from a vector-like lepton</b> <i>Adriano Chierchia</i>
15:00	<b>Ultra-Light Dark Matter models and some observational p...</b> <i>Diana Laura Lopez Nacir</i> <b>B-meson anomalies and the Triplet vector boson model.</b> <i>Eduardo Rojas</i>
	<b>Performance and Geant4 simulation of particle detection</b> <i>José Bazo</i> <b>A highlight of muon boson interactions, their polarization ...</b> <i>Prachi Anusiddha</i>
	<b>Status of the construction of a Muon Tomography Detect...</b> <i>Dr CESAR M. CASTROMON...</i> <b>Recent searches for new phenomena with the ATLAS det...</b> <i>Sebastian Retten</i>
	<b>Measuring soil moisture level using cosmic rays neutron ...</b> <i>Mr Jaime Belancourt</i> <b>ATLAS searches for supersymmetry with long-lived part...</b> <i>Risa Ushioda</i>



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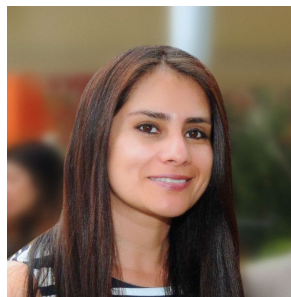
# Thanks to our organizing committee

But most especially to....

Edy Ayala (Escuela Politécnica Nacional)  
Andrés Baquero (Universidad del Azuay)  
Mario Audelo (Escuela Politécnica de Chimborazo)  
Ernesto Contreras (Universidad San Francisco de Quito)  
Álvaro Dueñas (Escuela Politécnica Nacional)  
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Óscar Lasso (Universidad de las Américas)  
Carlos Marín (Universidad San Francisco de Quito)  
Christian Mejía (Universidad de Cuenca)  
Carlos Reinoso (Yachay Tech)  
Clara Rojas (Yachay Tech)



**Andrea Ayala**



**Alexandra Polanco**

and her team:  
**Daniela Armijos**  
**Pablo Calderón**

Enjoy Quito and the XIV SILAF AE!