## Melissa Cruz Torres<sup>1</sup> <sup>1</sup>Universidad Nacional Autónoma de Honduras



melissa.cruz@unah.edu.hn

# Honduras Experience in the 2020s





## **Considerations of Honduras to joint CERN started in 2020**

Three key points:

one of CERN experiments - LHCb Experiment

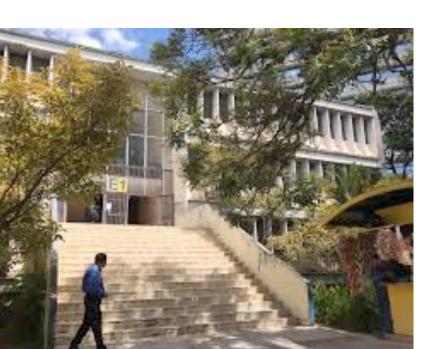
group-Brazil

participation

- Return to the country of individuals who have been formed abroad and already had participation in
  - Returning to the country but maintaining LHCb collaboration research bonds through the Rio

Supportive efforts and welcoming actions from CERN in the path to make a reality the Honduras'

## Initiative to joint CERN is being led by the UNAH







- Authorities in the 2020s (Faculty of Science) receive the initiative and value the HUGE meaning for the country to being able to participate in the scientific program of CERN
  - Projection of UNAH to joint as associate members to LHCb Experiment

#### but no Scientific and Technical Cooperation Agreement Honduras-CERN existed at the moment



# First important step

The Scientific and Technical Cooperation Agreement Honduras-CERN was signed in 2021 by the Honduras Institute of Science, Technology and Innovation (IHCIETI). Previous attempt to consolidate this agreement happened 40 years ago.





Continued support from CERN representatives (Dr Salvatore Mele) Strategic meetings with Honduras's Ambassador





## **Next Step - Consolidation of a MoU with LHCb Experiment**

UNAH authorities very interested and aware of the scientific benefits of this project for the university and education

Following years have been concentrated in polishing application and overcoming bureaucratic walls



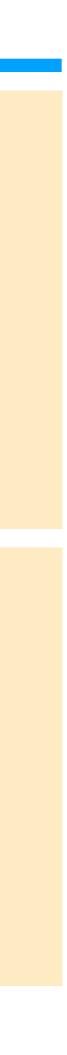
# We have come to 2024

Scientific application to joint LHCb Experiment mature and ready to submit, and thus to start negotiations with the experiment Membership Committee

- Academic group to participate at LHCb is small and to joint efforts in scientific computing projects.
  - We aim to grow in the coming years Capacity building engaging more students and researches,

Change of authorities in the university this year

- The final actions are on their side.
- We keep pushing to give the final step to make a reality our participation



# Students in the CERN summer student program

#### 11 Septiembre 2023

#### Estudiantes de Física participan en programa de verano 2023 del CERN



#### Periódico PRESENCIA UNIVERSITAI

Periodista Yuri Vargas, Presencia Universitaria

Dos estudiantes de Física de la Universidad Nacional Autónoma de Honduras (UNAH) participaron en la Escuela de Verano 2023 del Centro Europeo para la Investigación Nuclear (CERN), en Ginebra, Suiza.

Se trata de Óscar Hernández Martínez y Daniel Martínez Teruel, ambos pasantes de último año de la carrera en Ciudad Universitaria,

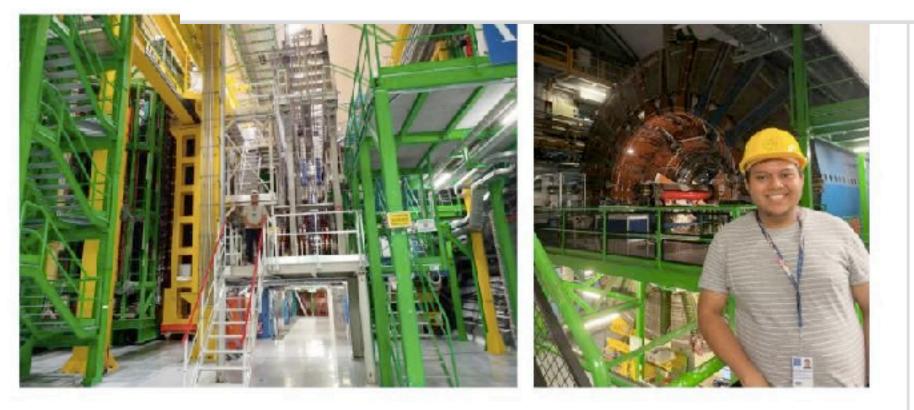




#### Feasibility study of a PEEK light guide for the LHCb ECAL Upgrade II

Jose Fernando Martinez Rosales (UNAH) Supervisor: Augusto Sciuccati / Markus Benner August 6th cf 2024

Thank you! For your attention





Special thanks : Augusto Sciuccati, Heinrich Schindler, Markus Benner, Kacper Jama, Matteo Salmoni, Tengiz Kvaratskheliya

home.cern

