

# Exploring Matter with Precision Measurements in Nuclear Collisions at LHCb (AJO-14062)

## Job description:

The [Experimental LHCb and Phenomenology groups](#) at the Galician Institute of High Energy Physics (IGFAE) of the University of Santiago de Compostela have an opening for a PhD studentship. The thesis subject would be: "Exploring Matter with Precision Measurements in Nuclear Collisions at LHCb"

The goal is to analyse the upcoming data from LHCb proton-ion collisions both in collider and fixed target modes, and to compare them with the predictions of different phenomenological models for the initial state of the collision. In particular, the study of the existent nuclear parton distribution functions and saturation models is proposed.

We offer an initial three-year contract with a salary of 18000 Euros/year (equivalent to an FPU contract of the Ministry of Science, Innovation and Universities of Spain). Research stays at CERN and other research centres together with attendance to school / international conferences are foreseen within the contract. Starting date would be fall 2019.

## Required Qualifications

Interested candidates must be in possession of a Master of Science degree, ideally in Particle Physics, to be able to start a PhD within the Universidade de Santiago de Compostela Nuclear and Particle Physics program.

Interested candidates should submit via Academic Jobs Online ([IGFAE PhD studentship LHCb](#)):

- Short cv.
- Contact details of at least two persons that could be requested for references.
- Transcript of academic records.

The deadline for applications is September 15th 2019. Late applications could be considered if the position is not filled.

For further enquires please contact [jobs@igfae.usc.es](mailto:jobs@igfae.usc.es) or prof. Cibrán Santamarina ([cibran.santamarina@usc.es](mailto:cibran.santamarina@usc.es)).

For administrative reasons, this pre-selection made through Academic Jobs Online will be followed by a selection through the application system of the University of Santiago de Compostela.

IGFAE is a member of [SOMMa Excellence Alliance](#), the league of Severo Ochoa Centres and María de Maeztu Units to promote Spanish Excellence in research and to enhance its social impact at national and international levels.

Also at:

<https://inspirehep.net/record/1744233>