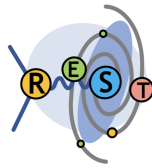


# REST-for-Physics Training School



Rare Event  
Searches Toolkit  
software

The [REST-for-Physics](#) (Rare Event Searches Toolkit) Framework is a collaborative software effort that provides common tools for acquisition, simulation, and data analysis of gaseous Time Projection Chambers (TPCs). REST-for-Physics was conceived at the University of Zaragoza and it is intensively used in academia by undergraduate, master and PhD students for thesis preparation. It is also used for generic R&D, and it has been adopted by experiments like [IAXO](#), [TREX-DM](#) or [PandaX-III](#) to assist in the data processing and storage of official experimental data.

This school pretends to provide a general overview of the different capabilities of the framework through interactive sessions. During the course we will go through basic examples that will allow us to reproduce some of the common tasks performed during data processing, storage and analysis.

In order to be able to follow the course the participants are required to have a basic knowledge of programming languages, such as python or c, certain programming experience (having written your own pieces of code) is also highly recommended. REST-for-Physics is written in C++, and therefore having previous knowledge of the basic concepts of C++ is mandatory.

If you have previous coding experience in C or python, it will suffice to study the main C++ concepts at the following [NIST C++ course for scientists](#).

REST-for-Physics uses [ROOT](#) and [Geant4](#) packages. Previous knowledge of those packages is an advantage to take maximum profit from this course.



**Course will take place in Zaragoza, from [23rd January to 27th January](#).**

**Morning sessions from [9 a.m. to 1 p.m.](#)**

**Limited number of places available.**

**Free online registration (QR code).**



**REMARK: Before registration you will need to create an Indico account at [indico.capa.unizar.es](https://indico.capa.unizar.es)**

Contact: [javier.galan@unizar.es](mailto:javier.galan@unizar.es)