

DESY CMS - Study of the Higgs boson's parity properties using the columnar analysis framework

The student will be involved in activities related to the measurement of the Higgs boson CP properties. The set of topics to work on includes improving the Data/MC agreement of the Run3 data collected by the CMS detector. In addition, the student will gain some experience in developing the analysis tools to measure spin-sensitive variables in the decays of the Higgs boson into a pair of tau leptons.

Special qualifications: Basic knowledge of Python

Group

FH - CMS

Project Category

B1. Physics Data Analysis and Performance (software-oriented)

Special Qualifications

Primary authors: RASPEREZA, Alexei (DESY); CARDINI, Andrea (CMS (CMS Fachgruppe HIGGS)); MALVASO, Jacopo (CMS (CMS Fachgruppe HIGGS))

Presenter: ZAKHAROV, Stepan (DESY (Deutsches Elektronen Synchrotron))