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HEP in the Greek classrooms

Monday 29 August 2016 11:00 (30 minutes)

The HEP Inquiry learning resources created over the last three-four years by the Inspiring Science Education and Go-lab European outreach projects will be reviewed. The resources are mostly addressed to high school students and the purpose is to ignite their interest on science. To that end, science exhibitions as well as science fairs (like the ones organized by this conference) try to reach a very wide audience.
In addition, at the University of Athens for the last four years we have been using the HYPATIA on-line event analysis tool as a lab course for fourth year undergraduate physics students, majoring in HEP. Each year 25-30 students highly appreciated the course, since they get a direct involvement in the actual top-level research. Up to now, the course was limited to visual inspection of a few tenths of ATLAS events. Recently we have enriched the course with additional analysis exercises, which involve large samples of events. The students, through a user friendly interface can analyze the samples (both signal and background ones) and optimize the cut selection in order to search for the Higgs decay H->4 leptons. Recently ATLAS released 1/fb of data, so starting next fall the students will analyse real data

Summary

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