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ATLAS Outreach in LatinAmerica: how Open Data&Source + Real&Virtual Visits help to the training of students and researchers in High Energy Physics

The members of large High Energy Physics (HEP) experiments come from all over the World. Thereby, they understand that one significant challenge in teaching experimental HEP is the current location of many potential and precious students and young researchers. In the case of ATLAS, many of its members come from a Latin-American country, and they recognise the huge potential that the -always increasing- university student's population has regarding expanding this experimental field. Not only concerning the fundamental physics but on the computing and BigData analysis' skills. For that reason, several outreach teams, which include ATLAS, IPPOG, CEVALE2VE members and many other researchers, have been developing and examining costless Open Source technologies to release data and to provide effective web-based and offline environments to run, produce, save and share HEP analysis. After several years, and with the help of the ATLAS Virtual Visits program, we have constituted a strong community that is not just releasing data and resources but genuinely training new physicist that are pursuing advanced studies in experimental HEP right now. We want to present the community, results and ideas emerged until now.

Author: SANCHEZ PINEDA, Arturo (Abdus Salam Int. Cent. Theor. Phys. (IT))

Presenter: SANCHEZ PINEDA, Arturo (Abdus Salam Int. Cent. Theor. Phys. (IT))

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