21st International Conference on Computing in High Energy and Nuclear Physics (CHEP2015)



21st International Conference on Computing in High Energy and Nuclear Physics CHEP2015 Okinawa Japan: April 13 - 17, 2015

Contribution ID: 162

Type: poster presentation

Exploring JavaScript and ROOT technologies to create Web-based ATLAS analysis and monitoring tools

We explore the potentialities of current web applications to create online interfaces that allow the visualization, interaction and real physics cut-based analysis and monitoring of processes trough a web browser. The project consists in the initial development of web-based and cloud computing services to allow students and researches to perform fast and very useful cut-based analysis on a browser, reading and using real data and official Monte-Carlo simulations stored in ATLAS computing facilities. Several tools are considered: ROOT, JavaScript and HTML. Our study case is the current cut-based H->ZZ->llqq analysis of the ATLAS experiment. Preliminary but satisfactory results have been obtained online; this presentation describes the tests and plans and future upgrades.

Author: SANCHEZ PINEDA, Arturo (Universita di Napoli Federico II-Universita e INFN)

Co-author: MOSKALETS, Tetiana (C)

Presenter: SANCHEZ PINEDA, Arturo (Universita di Napoli Federico II-Universita e INFN)

Track Classification: Track2: Offline software