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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.

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