

Web Access to Cms Tracker Monitoring Data with an AJAX Interface

Monday, 13 February 2006 16:00 (20 minutes)

The CMS tracker has more than 50 millions channels organized in 16540 modules each one being a complete detector. Its monitoring requires the creation, analysis and storage of at least 4 histograms per module to be done every few minutes. The analysis of these plots will be done by computer programs that will check the data against some reference plots and send alarms to the operator in case of problems. Fast visual access to these plots by the operator is then essential to diagnose and solve the problem. We propose here a graphics interface to these plots similar to the one used by Google Maps to access satellite images (which uses the AJAX technique). We start with a “tracker map” i.e. an image that contains in a single screen a planar visualization of all modules. The operator can zoom on this image accessing first histogram miniatures drawn on top of the modules and then the full histograms. As in Google Maps the user can pan the image at any resolution and can switch between different representations showing different kind of plots.

Primary author: Ms MENNEA, Maria Santa (University & INFN of Bari)

Co-authors: Mr EULISSE, Giulio (Northeastern University, Boston); Dr ZITO, Giuseppe (INFN Bari)

Presenter: Mr EULISSE, Giulio (Northeastern University, Boston)

Session Classification: Software Tools and Information Systems

Track Classification: Software Tools and Information Systems