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A software and computing prototype for CMS Muon System alignment

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A precise alignment of Muon System is one of the requirements to fulfill the CMS expected performance to cover its physics program. A first prototype of the software and computing tools to achieve this goal has been successfully tested during the CSA06, Computing, Software and Analysis Challenge in 2006. Data was exported from Tier-0 to Tier-1 and Tier-2, where the alignment software was run. Re-reconstruction with new geometry files was also performed at remote sites. Performance and validation of the software has also been tested on cosmic data, taken during the MTCC in 2006, Magnet Test Cosmic Challenge.

Submitted on behalf of Collaboration (ex, BaBar, ATLAS)

CMS

Primary author: Prof. MATORRAS, Francisco (Insitituto de Física de Cantabria)

Co-authors: Dr SZNAJDER, Andre (Instituto de Física Univ. do Estado do Rio de Janeiro); Mr CABRILLO, Ibán (Insitituto de Física de Cantabria); Dr GONZALEZ, Isidro (Insitituto de Física de Cantabria); Dr FERNANDEZ, Javier (Insitituto de Física de Cantabria); Mr MARTINEZ, Pablo (Insitituto de Física de Cantabria); Mr MARCO, Rafael (Insitituto de Física de Cantabria); Mr GONZALEZ, Rebeca (Instituto de Física de Cantabria)

Presenter: Mr MARTINEZ, Pablo (Insitituto de Física de Cantabria)

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