

CMS data quality monitoring: systems and experiences

Tuesday, March 24, 2009 2:40 PM (20 minutes)

In the last two years the CMS experiment has commissioned a full end to end data quality monitoring system in tandem with progress in the detector commissioning. We present the data quality monitoring and certification systems in place, from online data taking to delivering certified data sets for physics analyses, release validation and offline re-reconstruction activities at Tier-1s. We discuss the main results and lessons learnt so far in the commissioning and early detector operation. We outline our practical operations arrangements and the key technical implementation aspects.

Presentation type (oral | poster)

oral

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Session Classification: Distributed Processing and Analysis

Track Classification: Distributed Processing and Analysis