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Data Scouting : A New Trigger Paradigm

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In 2011, the CMS collaboration introduced the concept of data scouting as an alternative strategy to normal data-taking technique, allowing to take data that otherwise would be rejected by the trigger filters. This special data flow, based on event-size reduction rather than event filtering, was exercised to maintain sensitivity to new light resonances decaying to jets, with very small online and offline resources allocated to it. The challenges implied by this new workflow and the solutions developed within the CMS experiment are shown. This technique is now a standard ingredient for CMS data-taking strategy. In this poster, the present status of data scouting in CMS and the improvements introduced in 2015 and 2016 is presented.

Summary

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