

Table of Contents

Muon DPG (DT/CSC/RPC/GEM) Approved Results.....	1
Muon DPG Publications.....	1
Approval steps.....	1
Muon DPG Approved Results 11.07.2018.....	1
DT DPG Approved Results.....	1
CSC DPG Approved Results.....	1
RPC DPG Approved Results.....	1
GEM DPG Approved results.....	1
MUON TDR Approved Results.....	1
Muon Alignment Approved Results.....	2
Publications.....	2
Approved Plots.....	2
RPC R&D Approved Results.....	2

Muon DPG (DT/CSC/RPC/GEM) Approved Results

Muon DPG Publications

- <https://cds.cern.ch/record/2313130> - *Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at $\sqrt{s} = 13$ TeV* - **CMS MUO-16-001**
- <https://cds.cern.ch/record/1558674> - *The performance of the CMS muon detector in proton-proton collisions at $\sqrt{s} = 7$ TeV at the LHC* - **CMS MUO-11-001**

Approval steps

- 1) Approval within the subsystem. Contact the related DPG coordinator.
- 2) General Muon Meeting. Please contact Carlo Battilana for a presentation slot.
- 3) If CMS data are involved, the results have to be approved by CMS run coordination meeting (Lucia Silvestris). This step also requires approval at the following WGM.

Muon DPG Approved Results UPDATED 11.07.2018

- MuonDPGPublic180622
- MuonDPGPublic170706
- Muon DPGPublic161124
- Muon DPGPublic160729
- Muon DPGPublic160609

DT DPG Approved Results

The full up-to-date list can be found here

CSC DPG Approved Results

Please see the CSC DPG Public twiki page

RPC DPG Approved Results

All plots are stored at this link

GEM DPG Approved results

Please see the GEM DPG Public twiki page

MUON TDR Approved Results

Please see the <https://twiki.cern.ch/twiki/bin/viewauth/CMS/MuonPhase2TDR>

All plots are stored at this link

Muon Alignment Approved Results

Twiki page Preliminary results on the performance of track-based muon alignment in 2017. Approved October 21, 2017.

Twiki page Preliminary results on the performance of track-based muon alignment in 2018.

Publications

- **CMS-CFT-09-017:** CMS Muon Hardware Alignment (with CRAFT2008 data)
 - ◆ arXiv:0911.4022 published in JINST 5 (2010) T03019: "Aligning the CMS muon chambers with the muon alignment system during an extended cosmic ray run"
- **CMS-CFT-09-016 note:** CMS Muon Track-based Alignment (with CRAFT2008 data)
 - ◆ arXiv:0911.4770 published in JINST 5 (2010) T03020 "Alignment of the CMS muon system with cosmic-ray and beam-halo muons"

Approved Plots

Plot	Caption
	<p>CMS Muon System Resolution with Split Cosmics</p> <p>Cosmics traversing CMS from top to bottom are split in upper and lower leg, and each leg is reconstructed independently.</p> <p>The Gaussian width of the distribution: $\left[\frac{q}{p_T}(top) - \frac{q}{p_T}(bot) \right] / \left[\sqrt{2} \cdot \frac{q}{p_T}(bot) \right]$ is plotted as a function of $\frac{q}{p_T}(bot)$ as measured by the tracker only reconstruction.</p> <p>Approval slides (the plot is on page 12) from 24 June 2011 by Mario Pelliccioni</p>

Set of Performance Plots for the CMS Muon Alignment (link to slides) with 2012 Data was approved on October 18, 2013 Plots approval Meeting .

RPC R&D Approved Results

See <https://twiki.cern.ch/twiki/bin/view/CMSPublic/RPCRandDPlots>

Responsible: MarioPelliccioni, YuriyPakhotin

This topic: CMSPublic > MuonDPGResults

Topic revision: r40 - 2019-11-08 - FrancescaCavallo



Copyright &© 2008-2021 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.
 or Ideas, requests, problems regarding TWiki? use Discourse or Send feedback