



CSC Segment Builder status

Vladimir Palichik, Nikolay Voytishin

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Current Status

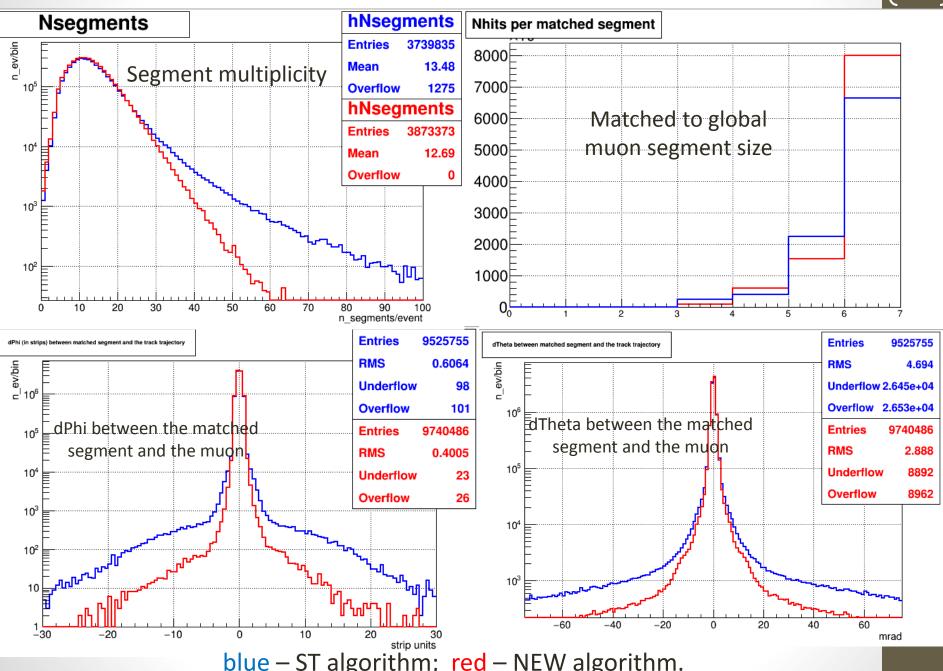
 Algorithm's description & Performance with MC data: https://indico.cern.ch/event/388966/contribution/4/attachments/777650/106637 3/15_04_22-Voytishin_Palichik-CSCSegBuilder_fixed_sumw.pdf

- The RoadUsage(RU) CSC Segment Building algorithm update implemented;
- RU segment builder the default CSC segment builder, starting with 9_0_0_pre5.

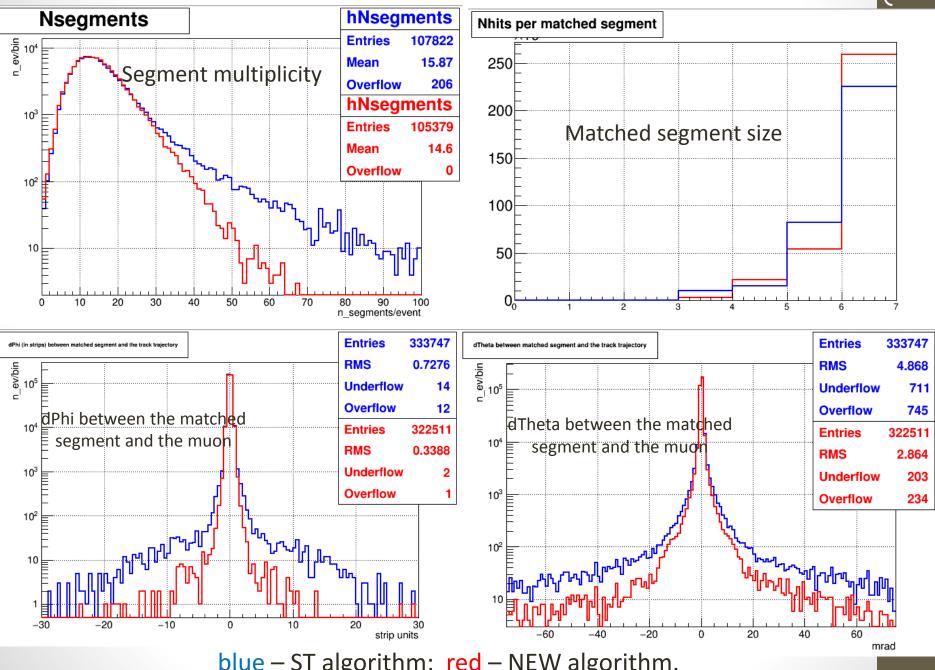
Software & Data

- CMSSW_8_11_0 for Collision data (TnP analyzer works for this release)
 - /SingleMuon/Run2016H-ZMu-PromptReco-v2/RAW-RECO
 - ~9M events;

Collisions 2016 p_global_muon > 100GeV

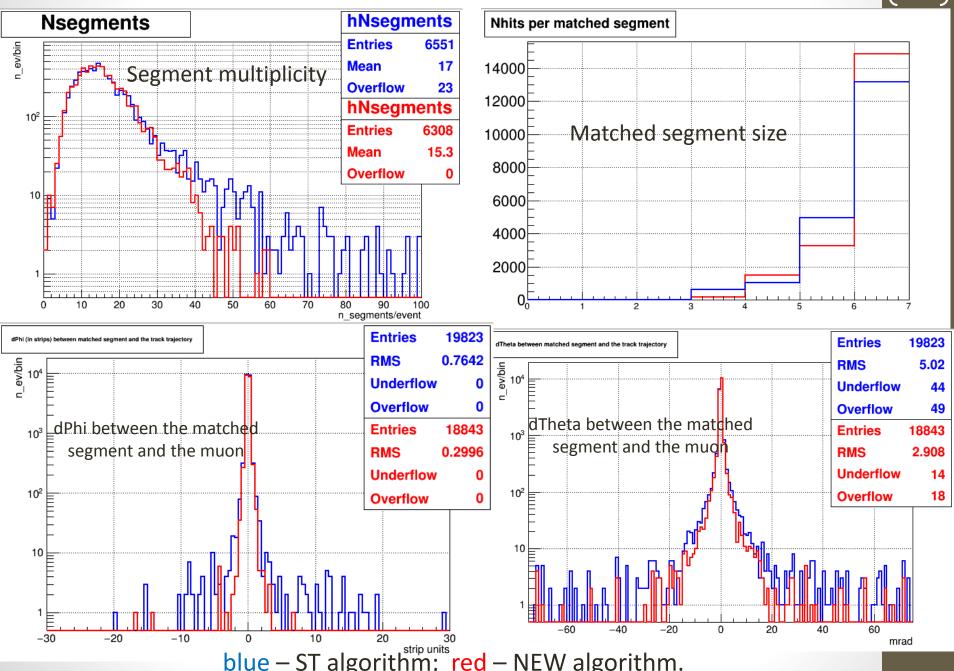


Collisions 2016 p_global_muon > 300GeV



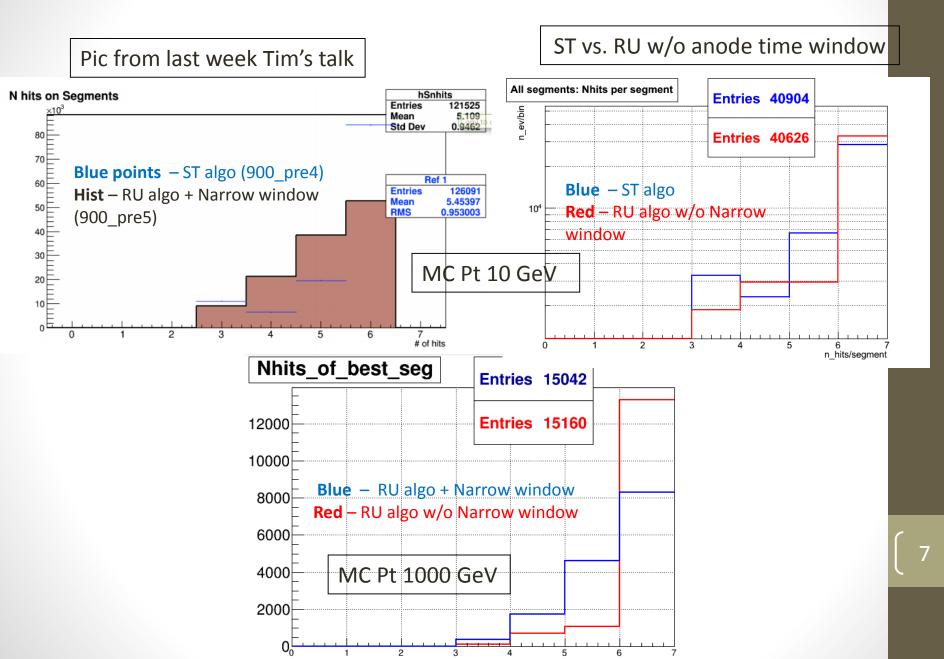
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Collisions 2016 p_global_muon > 500GeV

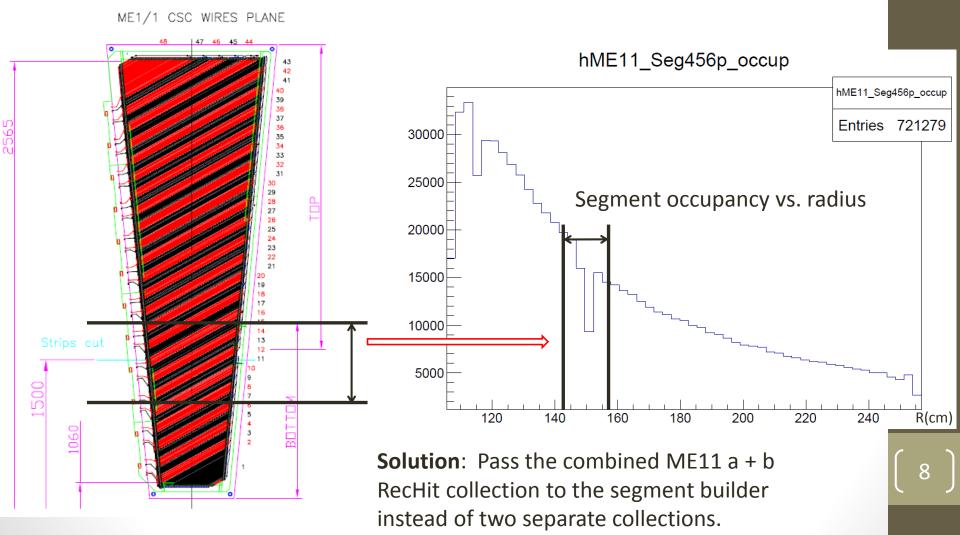


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Narrow anode time window



ME11a/b common WG region



Summary

- CSCSegmentBuilderRU became the default algorithm starting with CMSSW 9_0_0_pre5;
- RU builder shows good results for 2016 collision data;
- Narrower anode time window applied for MC data results in decrease of segment length;
- Fixing ME11 common WG region problem in progress.