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Level-1 Trigger Upgrade Performance Paper Working Twiki

CADI line

<http://cms.cern.ch/iCMS/analysisadmin/cadi?ancode=TRG-17-001>

Link to CMS editor guidelines

<https://twiki.cern.ch/twiki/bin/view/CMS/Internal/Publications>
<https://twiki.cern.ch/twiki/bin/view/CMS/Internal/PubPreparation>

SVN instruction

<https://twiki.cern.ch/twiki/bin/viewauth/CMS/Internal/TdrProcessing>

Draft in google doc

<https://docs.google.com/document/d/1rEvigVpRA7Yt9NalHJhwkpbsCJEOnkjV-tVipWBGuJM/edit?usp=sharing>

Overleaf

<https://twiki.cern.ch/twiki/bin/view/CMS/CMSPapersInOverleaf>

<https://www.overleaf.com/14863817pzxwgtvqcjk>

Journal

Some guideline here: <https://twiki.cern.ch/twiki/bin/view/CMS/Internal/JournalChoice>

Layout

- Abstract [Pier]
- Introduction [Pier]
 - ◆ The CMS detector (very briefly + citation) [Pier]
 - ◆ The CMS Trigger menu during Run2 [Pier]
 - ◆ The LHC in Run2: a run of broken records (we could briefly summarise the running conditions of LHC during Run2 - PU profile, filling scheme, etc . Maybe there is a reference for LHC performance in Run2 already? - ask Sudan...)
 - ◆ The Level-1 trigger design: from an upgrade project to a running detector (cite TDR and describes what's missing or changed since) [Pier]
- Algorithms and performance
 - ◆ Firmware and Emulators: Two faces of the Level-1 algorithms (general intro on where and how algorithms are built and validated) [Alex Z.]
 - ◆ Muons: MVA for more accurate pT assignment [Andrew+Thomas R.]
 - ◆ Trigger tower calibration: Foundation [Bhawna]
 - ◆ Jets and Energy sums: Pile-up subtraction algorithms [Aaron?]

- ◆ Electrons and photons: Dynamic clustering and isolation for better energy resolution [Alex Z.]
 - ◆ Taus: Recovering the third leg [Olivier]
 - ◆ The final decision: VBF-like-algorithms at level-1 [Olivier+Manfred?Dinyar?]
- Control software: the one ring (describe briefly and cite proceedings) [Dinyar?Alessandro?]
 - Summary

Length:

- The Introduction should not go beyond 2-3 pages.
- The algorithm can fill the other 15 pages which means about 2 pages per object.
- Control software 1 page

-- PierluigiBortignon - 2018-02-14

This topic: Sandbox > L1TriggerPerformancePaper2018

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