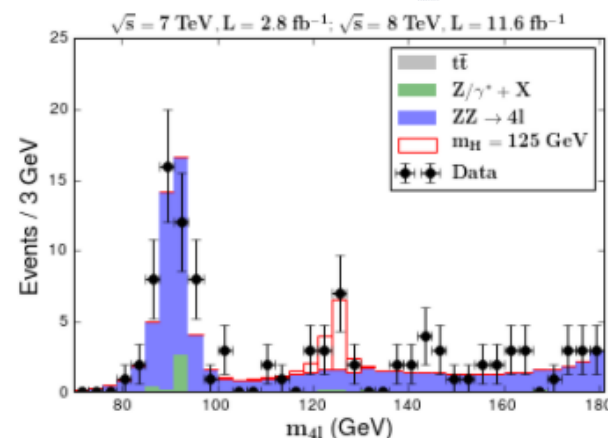




CMS masterclass update



New developments planned for IMC 2019 → moved to summer 2019 and IMC 2020

- Old WZH → 2 lepton (WZ) + 4 lepton (H) measurement
- New measurement, 2 possible versions
 - 4 lepton + 2 lepton with low mass particles (J/Ψ , Y) included
 - 4 lepton + 2 lepton, Z and W only
 - Will try both with teachers this summer (QuarkNet)




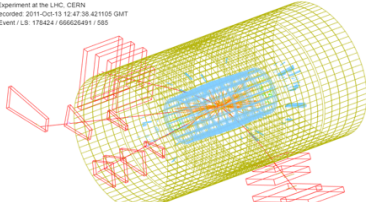
 

New CMS Data Workshop

The new QuarkNet CMS Data Workshop introduces and pilots an exciting upgrade to the CMS masterclass. The measurement now has two mass histograms: one for dileptons and another for 4-lepton events. Specs and contents can be customized as needed or upon request. For those who have experienced the previous CMS Data Workshop, this workshop can be given as a [one day super-update event](#).

Specs:	Contents:
<ul style="list-style-type: none">• For HS physics teachers• Two-day duration• QuarkNet staff or fellow facilitates.• Teachers do activities as students and then reflect and plan as professionals.	<ul style="list-style-type: none">• Introductory talk and Data Activities from the Portfolio• World Wide Data Day moon angle measurement• New CMS masterclass measurement• Fermilab or CERN virtual visit

 CMS Experiment at the LHC, CERN
Data recorded 2011-03-13 12:47:38.421105 GMT
Run: Event 1.0 17624 00002491 000



Other matters

- W2D2 and IDWGS both going well and growing
- Tried CMS VC's for university-level participants – small, went well; what next?

