

INTERNATIONAL MASTERCLASSES HANDS ON PARTICLE PHYSICS

CMS Masterclass 2014

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SG Meeting - 15.05.2014, DESY Zeuthen



CMS Masterclass Status 2014

22 countries, 69 institutes

New:

- Universidad de los Andes, Colombia
- Bibliotheca Alexandrina, Egypt
- Universidad Iberoamericana, Mexico
- ...

Stable product

New:

- $H \rightarrow \gamma\gamma$
- More data
- Google spreadsheet
- Portuguese

Center	Masterclasses	Countries	Videoconferences	Languages
CERN	45	15	9	
FNAL	24	8	13	
Combined	69	22	22	12

What happened

More widely available than ever

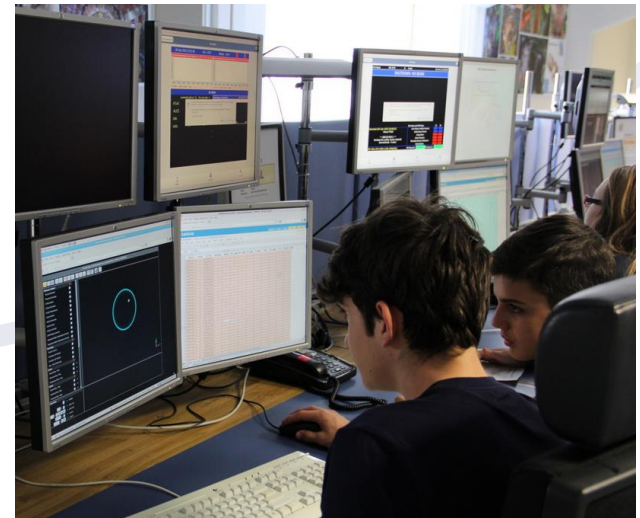
Well received by tutors, students

Pointed criticisms

- Lack of 4-vector info
- *Change iSpy-online?*
- Number of events per 2 students
- *Groups of 50?*

Google spreadsheet issues

- Slow down or freeze with large number of students.
- *Workaround this year*
- *New spreadsheet?*



Preliminary Statistics

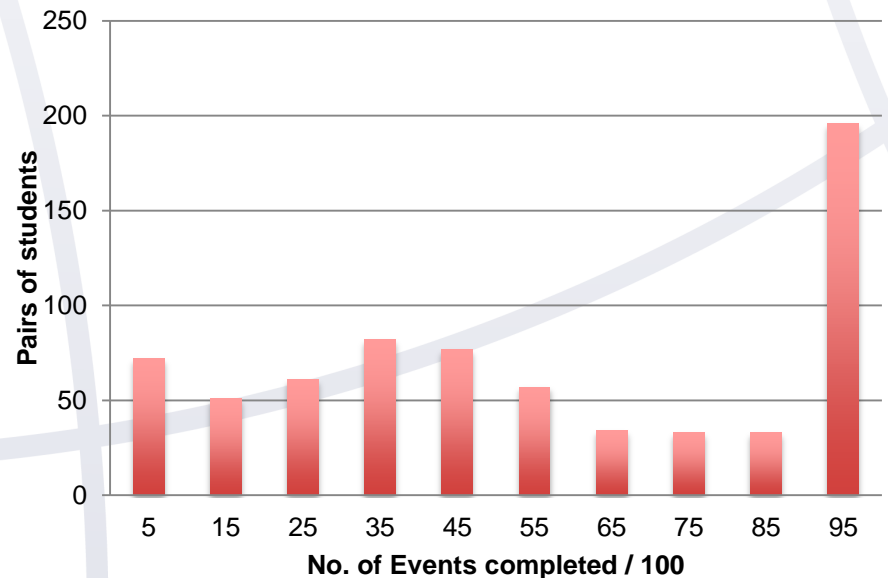
Compiled by Tom McCauley, QuarkNet/CMS

Particle ID agreement rates from student analysis:

- Electron 90%
- Muon 93%
- W cand 91%
- Dilepton (Z cand) 92%

Trend in data set completions →

Completion of CMS Masterclass Event Sets



Plans

Continue growth.

Stable product with improvements

- New spreadsheet – no workarounds
- Respond to issues.
- Add new features where practical.

More data

- More unique sets for Institutes
- Try to get more Higgs and background.



Questions?

- What should change?
- What should be preserved?
- What were your observations based on use of the CMS masterclass measurement?