



Elizabeth Sexton-Kennedy

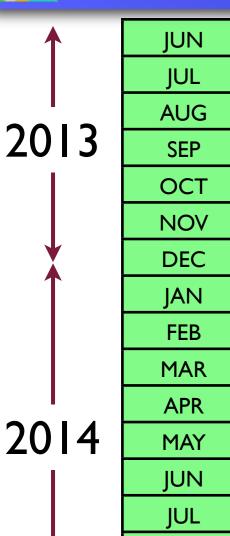


# Strategy and Recent History

- Our development model continues to be make a full release every 6mo. goals for the release are set by CMS
- The 5 X Y series release started in Dec of 2012
  - > Started with updates to G4, Root, the gcc4.7.2 compiler and other externals
  - This represents a successful alignment of schedules
- The production release for all of the 2012 data was 5\_3\_0. It was derived with very little modification from 6\_0\_0\_pre4.
  - It contained improvements to the physics object reconstruction performance.
  - The needed technical performance was achieved in 5\_2\_0 plus
- ▶ 6\_1\_X\_SLHCn releases for upgrade productions
- We are just now finishing up release 6\_2\_0 of CMSSW
  - It will be the last release to use gcc4.7.2 the production architecture for the next release will be gcc4.8.x



# Timeline - Preparation for Run2



- 6\_2\_0 release ready to generate FullSim 13Tev data
- 6\_3\_0 release ready to Digitize+Reconstr 13Tev data
- 7\_0\_0 release for multithreaded FW deployment

7\_I\_0 release for physics MC samples

7\_2\_0 release probably the HLT release

7\_3\_0 release urgent changes for data taking

2015

**AUG** 

SEP

**OCT** 

NOV

DEC

JAN

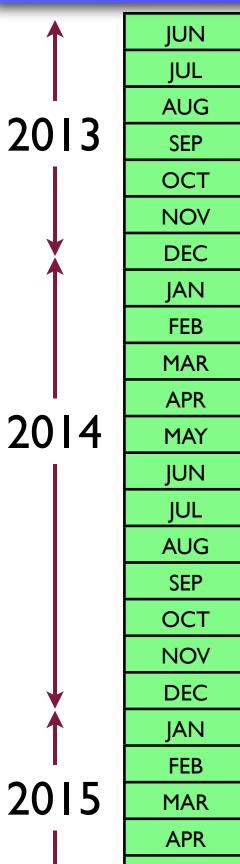
**FEB** 

**MAR** 

**APR** 



# Timeline - Supporting the Upgrades



6\_I\_X\_SLHC5 - first post DESY milstone release6\_2\_0 SLHCn - used for ECFA samples

7\_0\_0 release for multithreaded FW deployment

MAY

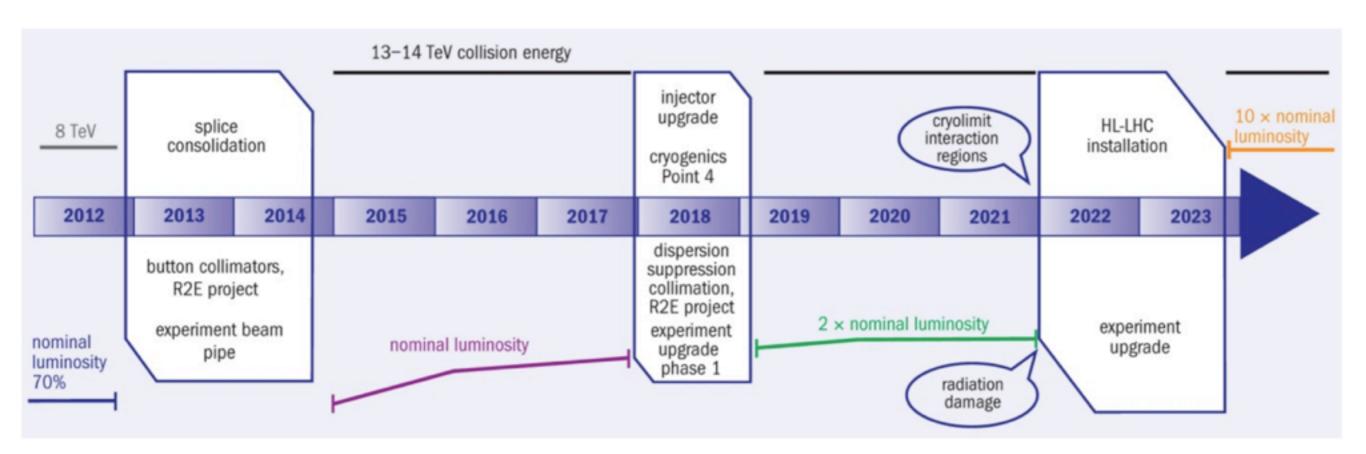


# Why ROOT 6?

- My opinion is that it future proofs ROOT and is a first step towards a future of heterogenous architectures that require fine grain parallel applications.
- Yes, C++11 is interesting but it is not the driver.
- This first step is a big one and it should be made during this first long shutdown of the LHC



### **Long Term Timeline**



LSI is a target of opportunity we will not have another shutdown as long as this one until 2022 and maybe longer if schedules slip. The industry will not wait for us.

The time to get the root6 transition done, before the multicore wave hits, is now.