

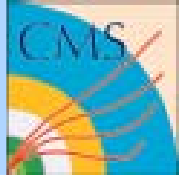


Laser System Evolution – Next 5 Years

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Laser : 5 Year Plan



Coarse 5 year plan, no detailed discussion of annual maintenance costs.

- **2012 (end of proton running) :**
 - **Operation of three old laser as before.**
 - **Commissioning and operation of the new laser.**
- **2013/14 (shutdown) :**
 - **Operation of ECAL still to be defined in detail, but not 24/7, 300+ days/year.**
 - **Early in the shutdown, ideally some time to continue operation as in 2012 to follow recovery.**
 - **Later in the shutdown, occasional operation to cross check.**
 - **Carefull analysis of 2012 operational experience and revise understanding of optimal transparency change.**
 - **Aim to replace old laser completely before restart of data taking in 2015 (?). Exact needs to be defined based on 2012 experience.**
- **2015+ (after shutdown) :**
 - **Further increase in radiation levels will pose additional challenges : Larger changes in EB, noticable damage and aging of VPTs, hadron damage, etc.**
 - **Need to addapted monitoring system to optimally cope with the physics needs and the evolution of the detector.**