CMS plans and requests

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CMS status and plans

- ☐ Currently using g4.9.p01 for mass production
  - ■ Several hundred millions events produced
  - ■ CMSSW_3_1 , meant for comparison with real data

  - ■ We need to keep it stable
    - ☐ No significant problem found so far
    - ☐ Possible intervention only for critical fixes

- ☐ For further developments:
  - ■ Keep Geant4 stable porting on top of g4.9.2.p01 what possible
    - ☐ Alternative physics lists for tests
  - ■ But keep an eye on future developments

CMS plans for next future

- We will test in parallel g4.9.3
  - And are looking at developments in view of it
  - To be advanced for next round of tuning

  - For instance: currently testing possible startup performance improvement

  - Looking at g4.9.2.p02 in the context of the Calorimetry Task Force

  - Interested in getting fixed the FPE reported in G4PreCompundInuclCollider (through G4CollisionOutput), but not critical for the time being

CMS requests

- Old topic we recall: visualization of boolean solids

- Possibility of specialized physics lists per G4Region (already mentioned at last TF)

- Interest in use of Glauber-Gribov cross section above 90-100 GeV

- Looking forward to efforts to understand and solve the discontinuity in the Bertini cascade energy response