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Muon misalignment

Complete:

Enabling the Muon misalignment (3_1_X)

The Muon misalignment can be simulated in the same way as in the GEANT-based simulation, by reading one of the scenarii available in the ORCOFF database. The consistency in the choice of the misalignment constants for the Fast and Full simulation is guaranteed by the usage of the GlobalTags (IDEAL_31X has perfect alignment, and STARTUP_31X has misalignment and miscalibration included). For more details about the content of the tags see here The philosophy is the same as in the Tracker where in case of misalignment the SimHit are moved (contrary to Full Simulation where the RecHits are moved instead). Another important difference compared to the case of the Tracker misalignment is that the alignment errors are not defined, hence not used during the reconstruction phase. This will change in the future presumably.

```
process.GlobalTag.globaltag = "STARTUP_31X::All"

# Apply Tracker and Muon misalignment
process.famosSimHits.ApplyAlignment = True
process.misalignedTrackerGeometry.applyAlignment = True
process.misalignedDTGeometry.applyAlignment = True
process.misalignedCSCGeometry.applyAlignment = True
```

Enabling the muon misalignment (before 3_1_X)

Feature not available before 3_1_X release.

-- PatriziaAzzi - 28 May 2009

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