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Documentation of Simulation (Gauss) and Digitization (Boole)

-- SilviaMiglioranzi - 30 Dec 2008

General Info

- Geant4: Geant4 Physics Manual, Geant4 Review (G. Corti)
- General overview status simulation: Simulation Issues - SW Week 20080620 (G. Corti), Gauss Status - SW Week 20080916 (G. Corti)

GAUSS status for the different subdetectors

- VELO: Simulation web page [↗](#), LHCb-2006-054
- ST: ST Software page [↗](#), IT material description note (LHCb 2008-027), TT material description note (LHCb 2008-061)
- OT: OT software notes in BOOLE documentation page [↗](#)
- CALO: XML Description of ECAL Geometry (G. Pakhlova), Status of Geant4 Calorimeter Simulation (P. Robbe), Gauss/Ecal News (P. Robbe), Simulation - Teast beam comparison for Ecal (P. Robbe), LHCb-2005-017
- RICH: RICH Simulation paper
- MUON:
- BCM: presentations in LHCb radiation meetings [↗](#), BCM note (LHCb 2008-027)
- Metal Foil Radiation Detector: Metal Foil note (LHCb 2007-062)

Known features/issues

- dE/dx: Summary of dE/dx studies in Silicon and MS in Muon System (M. Needham), J/Psi + Momentum Scale Calibration (M. Needham), lhcb-2008-037 (M. Needham), Energy Deposition in GAUSS (J. Mylroie-Smith, D. Hutchcroft), Report on Tracking (S. Hansmann-Menzemer)
- MCS: Updates on the Muon System software alignment (S. Vecchi)
- Calorimeter calibration: Calorimetry - new version of Geant4 (V. Romanovsky)

BOOLE, general remarks

- ReprocessFromBoole: How to reprocess an XDST out of Brunel or DaVinci starting from Boole

BOOLE status for the different subdetectors

The official BOOLE documentation page for the different subdetectors can be found here [↗](#). Additional material is listed below.

- VELO:
- ST: ST digitization talk1, ST digitization talk2, ST digitization note (LHCb 2003-015)
- OT:
- CALO: Digitization web page [↗](#), Realistic noise in the ECAL MC (A. Kozlinsky, I. Belyaev), CALO readout (O. Callot)
- RICH:
- MUON: software documentation web page

This topic: LHCb > DocSimDigi

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