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LHCb Upgrade Activities

Monday, 12 November 2007 10:45 (25 minutes)

The plans for the upgrade of the LHCb experiment will be presented.

The LHCb experiment plans to upgrade from its nominal instantaneous luminosity of 2x10^32 cm^-2s^-1 to around a factor of ten higher. The key elements of the upgrade will be a displaced vertex trigger at the initial level of triggering and a radiation hard vertex detector.

An overview of the changes required to the full experiment will be presented, concentrating particularly on the requirements for the replacement vertex detector. A particle fluence in excess of 10^15 1 MeV neutron equivalents / cm² is anticipated for the inner active strips or pixels of the upgraded vertex detector.

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Presenter: EKLUND, Lars (Department of Physics and Astronomy) **Session Classification:** Towards the Super-LHC (Experiments)

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