

## DISCRETE '08: Symposium on Prospects in the Physics of Discrete Symmetries



Contribution ID: 73

Type: **not specified**

### Triggers for New Physics at the LHC

*Saturday 13 December 2008 16:55 (20 minutes)*

Theorists' projections of beyond-the-SM discoveries at 14 TeV of LHC proton-proton collisions come with interesting challenges for experimentalists. The CMS trigger system has been designed to cope with unprecedented luminosities and accelerator bunch-crossing rates of up to 40 MHz. We will discuss the difficulties of event selection in the harsh LHC environment and the trigger strategies that have been developed to identify New Physics signatures. Finally, we will report on trigger studies using cosmic data collected at the LHC.

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**Session Classification:** Parallel Session A. Experimental prospects

**Track Classification:** Experimental Prospects