## TIPP 2011 - 2nd International Conference on Technology and Instrumentation in Particle Physics



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## Commissioning and Performance of the CMS High Level Trigger

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The CMS trigger system has been designed to cope with unprecedented luminosities and accelerator bunchcrossing rates of up to 40 MHz at LHC. The High-Level-Trigger (HLT) combines in a novel way the traditional L2 and L3 trigger components which are implemented in a commercial Filter Farm with thousands of CPUs. The flexibility of a contiguous software environment allows the coherent tuning of the HLT algorithms to accommodate multiple physics channels and enhance the CMS physics reach. We discuss the commissioning and performance of the HLT during the 2010 and 2011 data taking, and present our strategies for coping with increasing collision rates as the LHC luminosity continues to climb towards design specifications.

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