

Trigger Strategies for top and 4th Generation Quarks

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The ATLAS and CMS trigger systems have been designed to cope with unprecedented luminosities and accelerator bunch-crossing conditions. Trigger selections have been designed to have high efficiency for SM processes. Top-quark production is one of those for which the trigger efficiency is expected to be very high. This should ensure high efficiency for single top and fourth-generation quarks. We will review the present trigger strategies and their commissioning with early collision data as well as possible improvements in view of exploring the most challenging fourth-generation quark signatures.

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