

Novel opportunities with the LHCb Software Trigger

Tuesday 1 April 2025 14:45 (30 minutes)

The LHCb experiment at the LHC has a unique acceptance and a highly flexible trigger system which enables a rich physics program, while keeping the processed and stored data sizes at a manageable level. Since the beginning of the current data taking period its flexibility got further enhanced by relying fully on a software-only trigger. This talk will describe the LHCb trigger system and illustrate its potential far beyond the design goals with examples from past, present and future, focusing on rare strange decays and particles with exotic signatures.

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Session Classification: Invited Topical Talks 1 / Eingeladene Vorträge 1