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CMS RPC L1 Trigger clustering at CMSSW

Tuesday 10 September 2024 14:40 (20 minutes)

This poster presents the development of RPC L1 Trigger clustering within the CMS software framework, CMSSW, incorporating the improved timing capabilities of RPC chambers. The integration of these upgrades significantly enhances the resolution and reliability of the L1 Trigger emulator, enabling more precise trigger responses. The presentation will detail the technical advancements in digitisation, the integration with CMSSW, and the benefits observed in preliminary tests, demonstrating the system's improved performance in particle tracking and data handling using MC simulations.

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