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A comparison of gaseous detectors for high rate tracking and triggering applications at high luminosity colliders

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Gaseous detectors have come a long way from the invention of the multiwire proportional chamber, and have been exploited for charged particle tracking over the last few decades. This progress, from previous generation experiments to the present Large Hadron Collider experiments has had a dramatic impact on the conception and design of large area gaseous detectors for muon trigger and tracking. In this review a progress chart of technological advancements will be drawn with a focus on choices made amongst the different experiments and the possibilities for upgrades. In this paper I will review the state-of-the-art and compare gaseous detectors for their applications in high rate tracking and triggering at high luminosities.

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