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Gaseous Detectors R&D for the Muon Systems Upgrade at LHC

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Muon Systems at LHC experiments have performed extremely well with outstanding results during the Run1 phase. They are all based on gaseous detector technology: mainly wire/drift chamber and resistive parallel plate device.

For the harsher background conditions foreseen at higher luminosity, after LS2 and in particular at HL-LHC, muon detectors, especially in the high eta regions of the experiments, are expected to be upgraded with novel detector technologies.

A general overview of the Micro-Pattern Gas Detectors and the improved versions of wire chamber and RPC devices proposed for the Muon systems upgrades will be discussed.

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