Novel GEM foil layout for high-rate particle environment in the CMS ME0 muon detector

THE PHASE-II CMS MUON ENDCAP UPGRADE

ME0 prototype

Rate measurements

Gain measurements

Gas gain uniformity

Gain compensation

Efficiency study

References

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3. M. Bianco et al., “Rate Capability of large-area triple-GEM detectors and new foil design for the innermost station, ME0, of the CMS endcap muon system”, inspirehep.net/literature/2016685