

Efficiency

CMS MUON *Preliminary*

GIF++

- ▼ plateau = 89%, WP = 7.24 kV, Standard gas mixture, Eff(WP) = 88%
- ▲ plateau = 89%, WP = 7.24 kV, 30% CO₂ + 1.0% SF₆, Eff(WP) = 88%
- plateau = 89%, WP = 7.08 kV, 30% CO₂ + 0.5% SF₆, Eff(WP) = 88%
- ★ plateau = 89%, WP = 6.92 kV, 40% CO₂ + 1.0% SF₆, Eff(WP) = 88%

Background rate: 2.0 kHz/cm²

Test Beam in April 2024

After irradiation

1.4 mm double gap RPC

Threshold = 60 [fC]

