

CMS *Internal*

Run 3 Cosmics

Monthly DM-induced muon rate

$$\varepsilon = 8\text{e-}09$$
$$\alpha_{\chi} = 0.245$$

95% CL Upper Limits

Expected Limit $\pm 1\sigma, \pm 2\sigma$

$\sigma_{\text{th}}^{\text{LO}}(\text{A}' \rightarrow \mu\mu) \pm 1\sigma$

-1.00 TeV

10 10² 10³ 10⁴ 10⁵

10 20 30 40 50 60 70 80 90

$m(\chi)$ [TeV]

