

Run2

138 fb⁻¹ (13 TeV) $\kappa_{\Theta}^{\text{G}}$ **CMS***Private Work***negative ALP-SM interference**

----- Expected 95% CL upper limit (PRD 104, 092013)

Expected $\pm 1\sigma$ (PRD 104, 092013)Expected $\pm 2\sigma$ (PRD 104, 092013)10³10²

10

1

2

4

6

8

10

 f_a [TeV]