

μ

positive ALP-SM interference ($c_{\tilde{G}} c_{\tilde{\Phi}} < 0$)

----- default: MET > 50 GeV, $p_{\text{T}}^{\text{2nd AK4 jet}} > 30$ GeV

----- cut1: MET > 60 GeV, $p_{\text{T}}^{\text{2nd AK4 jet}} > 40$ GeV

----- cut2: MET > 70 GeV, $p_{\text{T}}^{\text{2nd AK4 jet}} > 40$ GeV

----- cut3: MET > 70 GeV, $p_{\text{T}}^{\text{2nd AK4 jet}} > 50$ GeV

----- cut4: MET > 80 GeV, $p_{\text{T}}^{\text{2nd AK4 jet}} > 50$ GeV

 10^3 10^2

10

1

 10^{-1}

1

2

3

4

5

6

7

 f_a [TeV]