

Number of events

ATLAS Internal

$\sqrt{s} = 13 \text{ TeV}, 139.0 \text{ fb}^{-1}$

$\gamma\gamma/W\gamma\gamma/Z\gamma\gamma$

$Z(\text{ll})\gamma$

$W\gamma$

• Data

$\gamma + \text{jets}$

$t\bar{t}h(\gamma\gamma/Z\gamma)$

$Z(\nu\nu)\gamma$

γ fakes

$t\bar{t}\gamma$

SM Total

10^5

10^4

10^3

10^2

10

1

$(n_{\text{obs}} - n_{\text{exp}}) / \sigma_{\text{tot}}$

2

0

-2

CRW

CRT

CRZ_mu

CRZ_el

VRW

VRT

VRE

VRZee

VRZmm

SRd_200

SRd_300

SRd_400

SRd_500

SRe_200

SRe_300

SRe_400

SRe_500