

# Weekly report

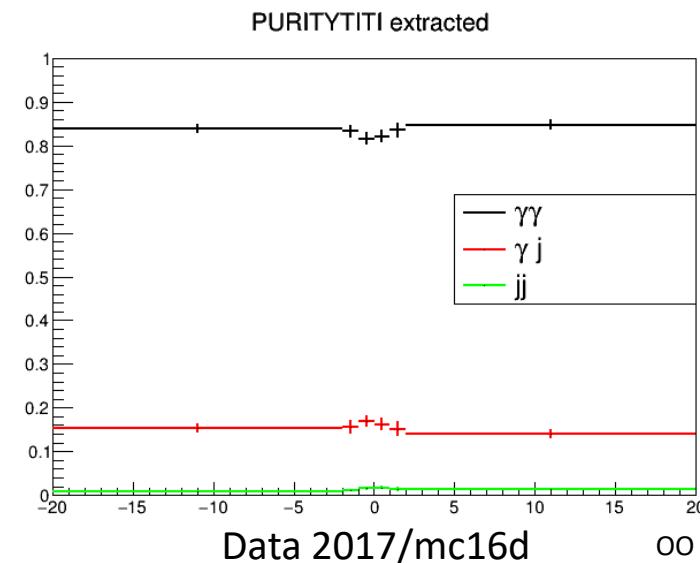
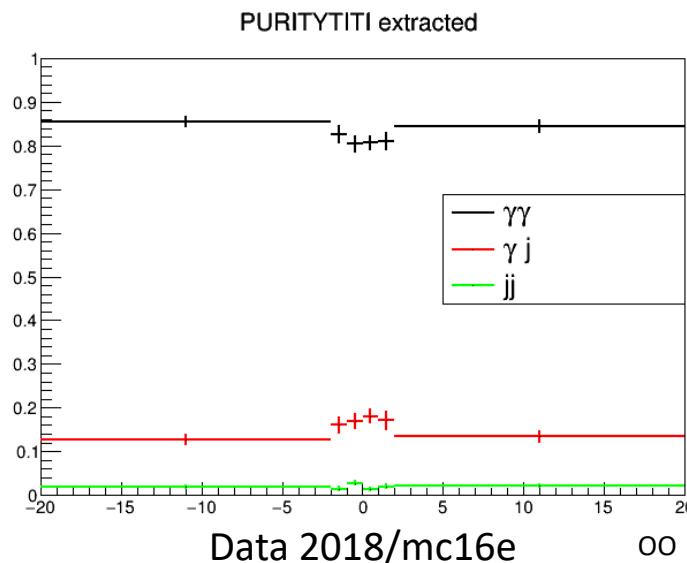
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FANGYI GUO

# Working status

## VBF HCP: 2x2DSB calculation

- Purity with OO in 2017 & 2018 data/MC. 2015+16 data is running.
- No syst. uncertainty.
- No category/mu/etc. cut, i.e. purity vs. OO 1D distribution.



# Working status

## Photon ID with topo-cluster

- Samples are almost finished. Drew some data/MC and sig/bkg plots.
- Asked a report in Photon ID group this Thursday.
- Loose id & iso photon,  $\min\Delta R_{l,\gamma} < 0.4$ ,  $m_{ll} \in [40, 80]\text{GeV}$ ,  $m_{ll\gamma} \in [40, 120]\text{GeV}$ ,  $pT_\gamma \in [15, 35]\text{GeV}$ . Statistics is not enough.

