Impact of ITOF veto on $\eta \rightarrow \pi^0 \gamma \gamma$ analysis

Events

6479

8.3M 10M

 $\eta \rightarrow \pi^0 \gamma \gamma$

 $\eta \rightarrow 3\pi^0$

Dashed lines with

η *→* 2γ

- Used Run 71638 for run conditions (folding in randoms)
- Reconstruct showers with Island algorithm with χ^2 margin=12.5
 - FCAL threshold = 0.1 GeV, BCAL threshold = 0.05 GeV
- Simulate ITOF hits due to interactions with η decay products + secondaries
 - EM background not superimposed for ITOF
 - Veto event if ITOF fired (no threshold)

