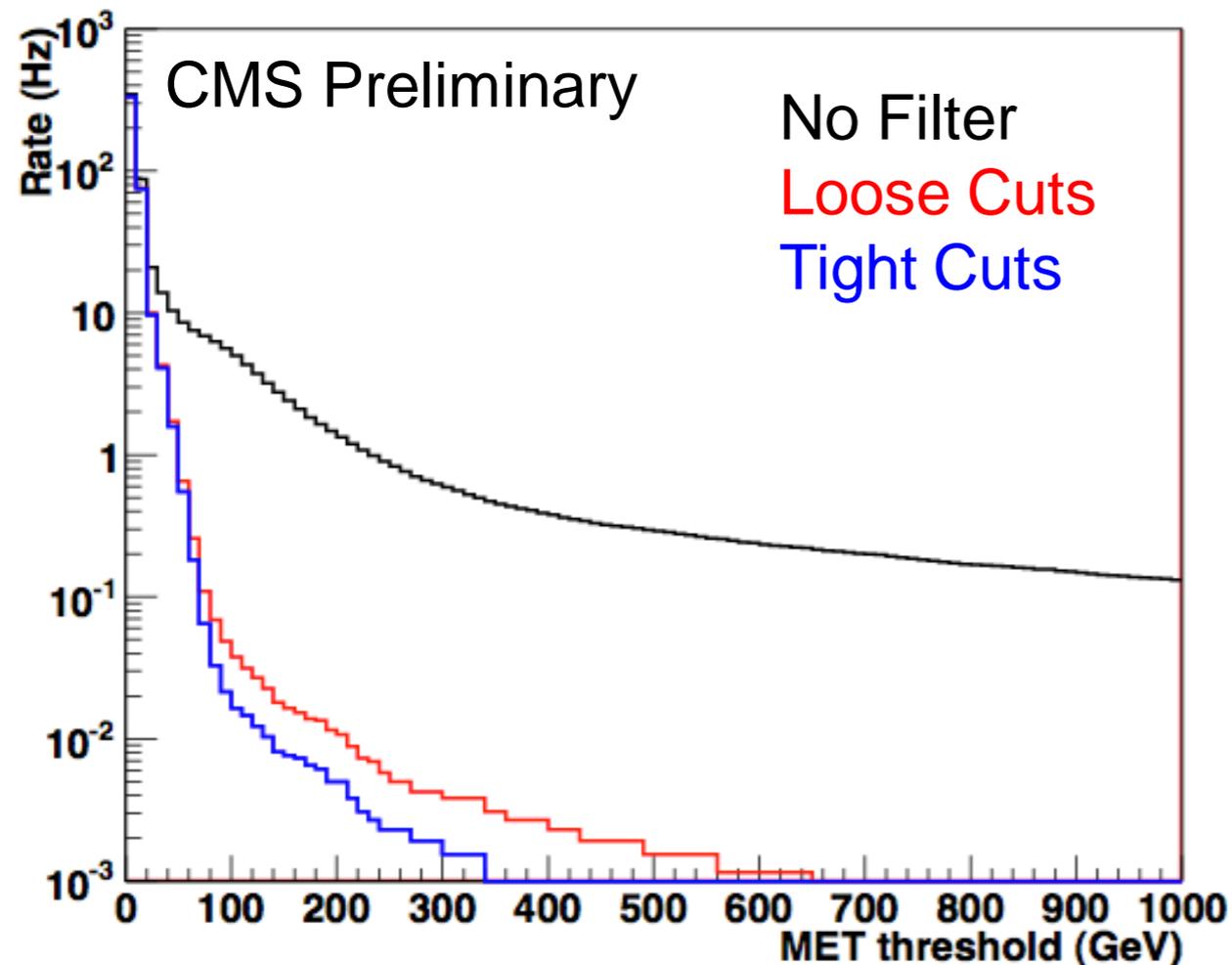


Hcal Noise in CRAFT09

HPD noise reduced by factor ~ 2 in CRAFT09 vs. CRAFT08 (for a $50 \text{ fC} \cong 10 \text{ GeV}$ threshold)

- Replaced noisiest HPDs during shutdown
- HB/HE HV lowered from 7.5 kV to 7.0 kV (decreasing gain by $\sim 12\%$)

Noise-induced missing E_T rate



HPD Noise Rates*	0 T	3.8 T
CRAFT 08†	0.27 Hz	0.29 Hz
CRAFT 09	0.14 Hz	0.16 Hz

* HPD mean noise rate in HB/HE for a 50 fC threshold

† 7 noisiest HPDs are not included, and were replaced during the shutdown

Noise filter uses:

- *Pulse shape*
- *Hit multiplicity*
- *Timing*