



# Photon v5 Updates

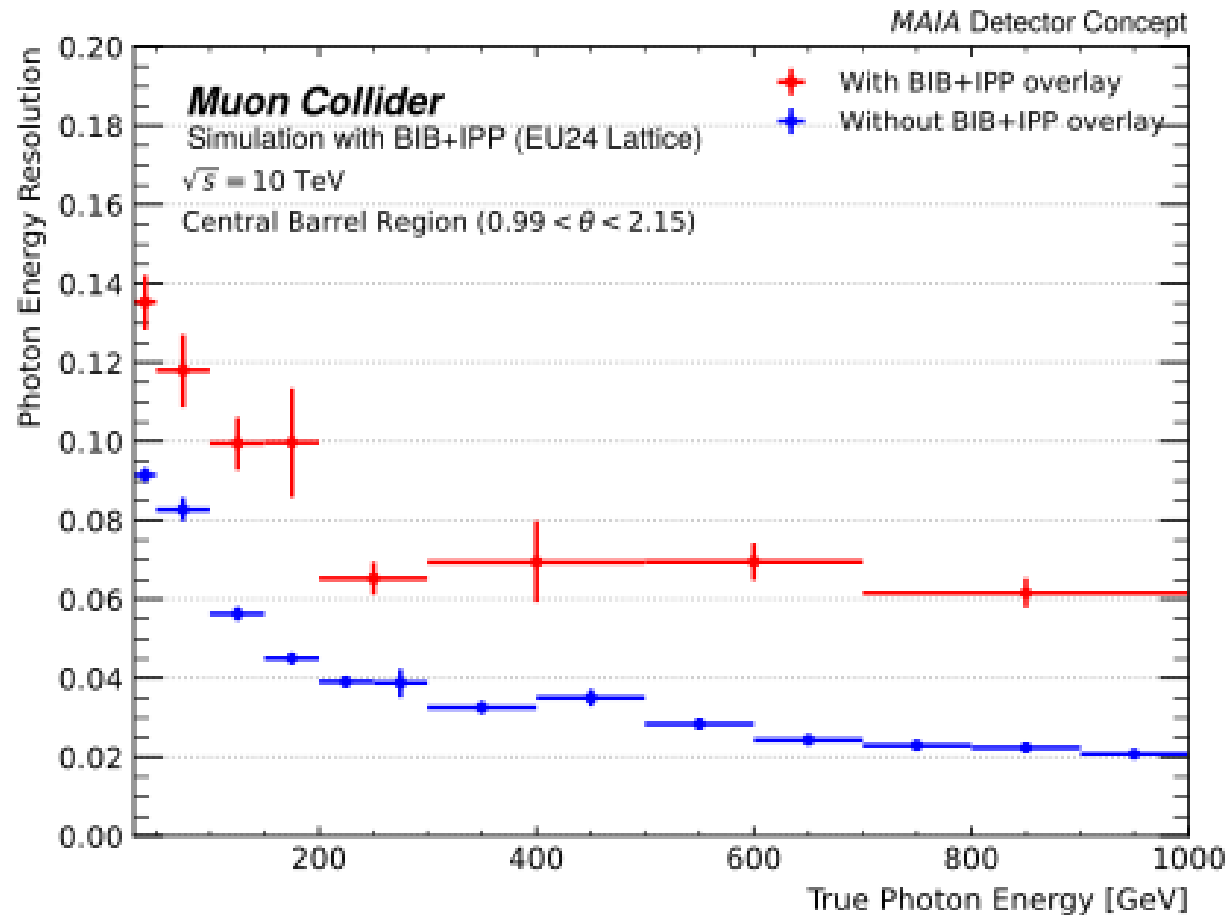
12 August 2025



# The latest

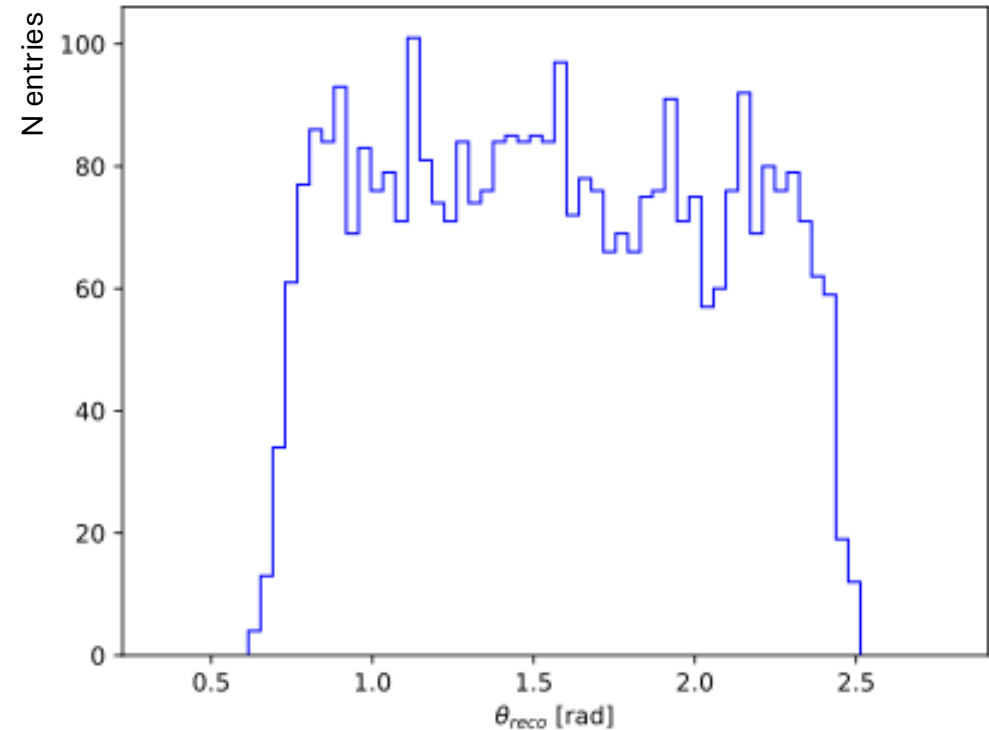
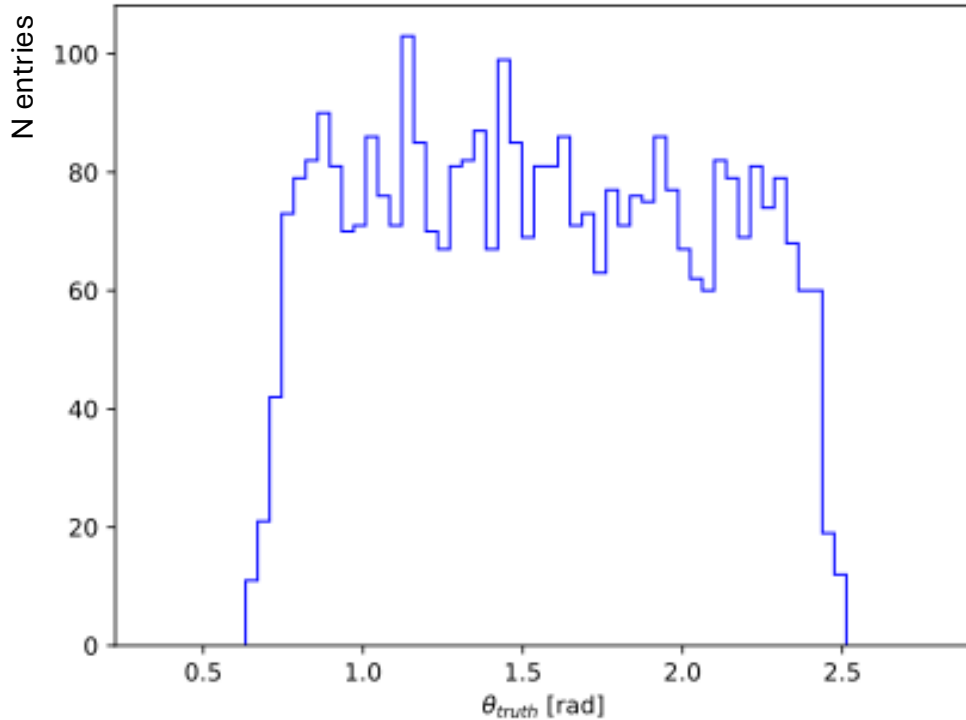
- Very few updates due to USMCC last week...
- Was finally able to trick ap23 into letting me ntuplize the limited-stats v5 photon BIB samples
- Preliminary barrel resolution with BIB is available (shown in Simone's talk)

# Photon v5 resolution with BIB



- *Still very low stats; each slice has highly variable number of files due to job failure*
- *Had to expand to bins 250 GeV wide in higher-energy slices to contest with low-N-driven fluctuations*
- *But the good news: this preliminary resolution with BIB looks reasonable/not terrifying*

# Complete lack of stats in endcap



*Practically **no** photons in the endcap area*

- *Not a sharp cutoff; I scoured my own code anyway, no hardcoded cuts*
- *Kiley's and my hypothesis: the elevated amount of BIB in the endcap events caused these jobs specifically to fail during reconstruction*