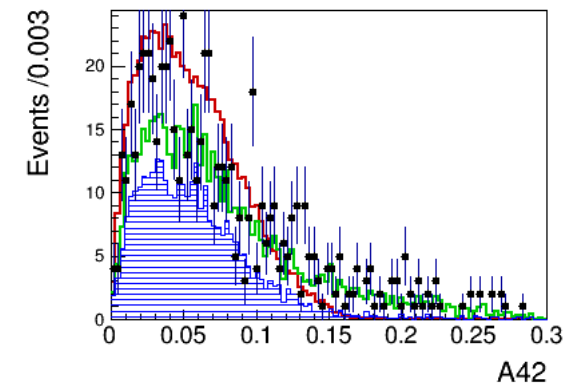
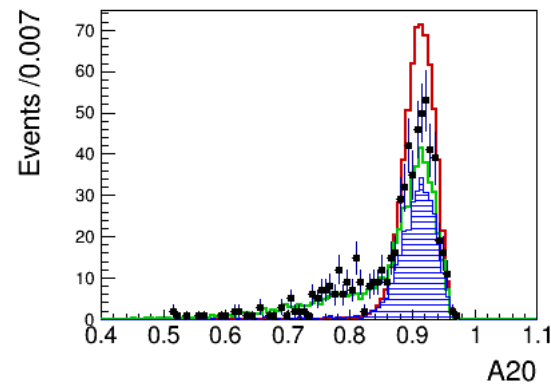
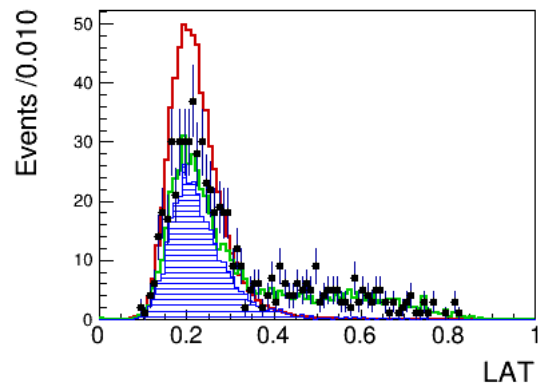
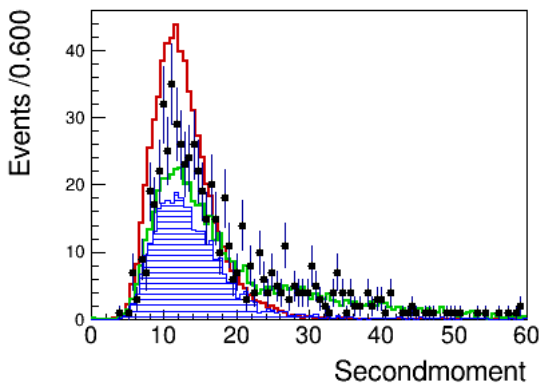
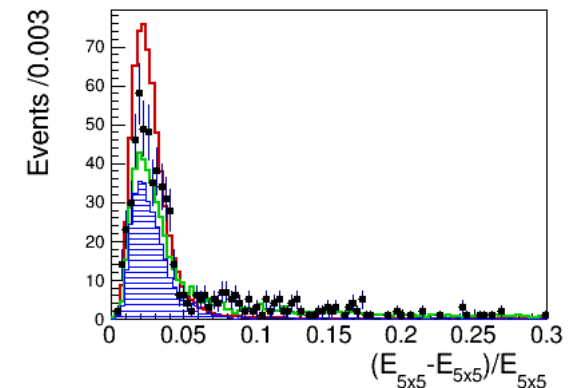
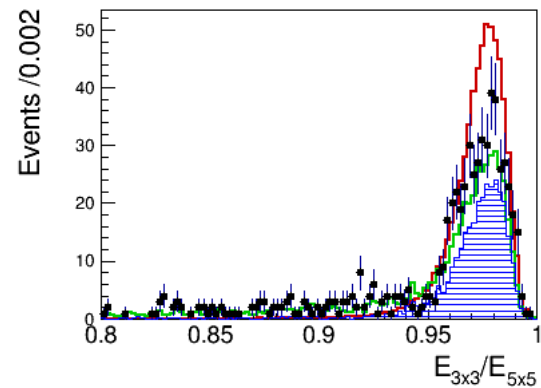
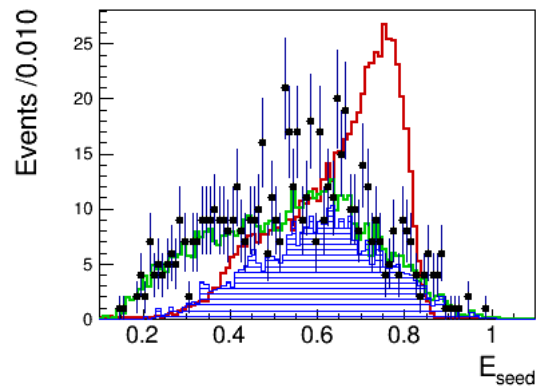
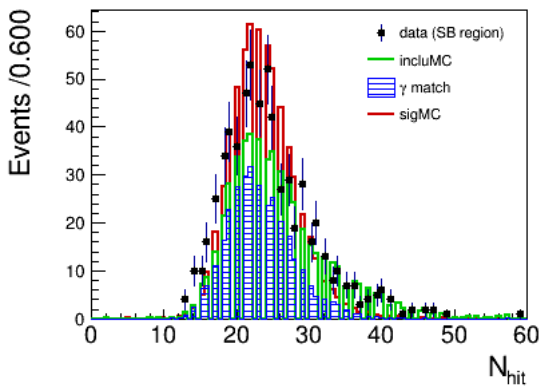
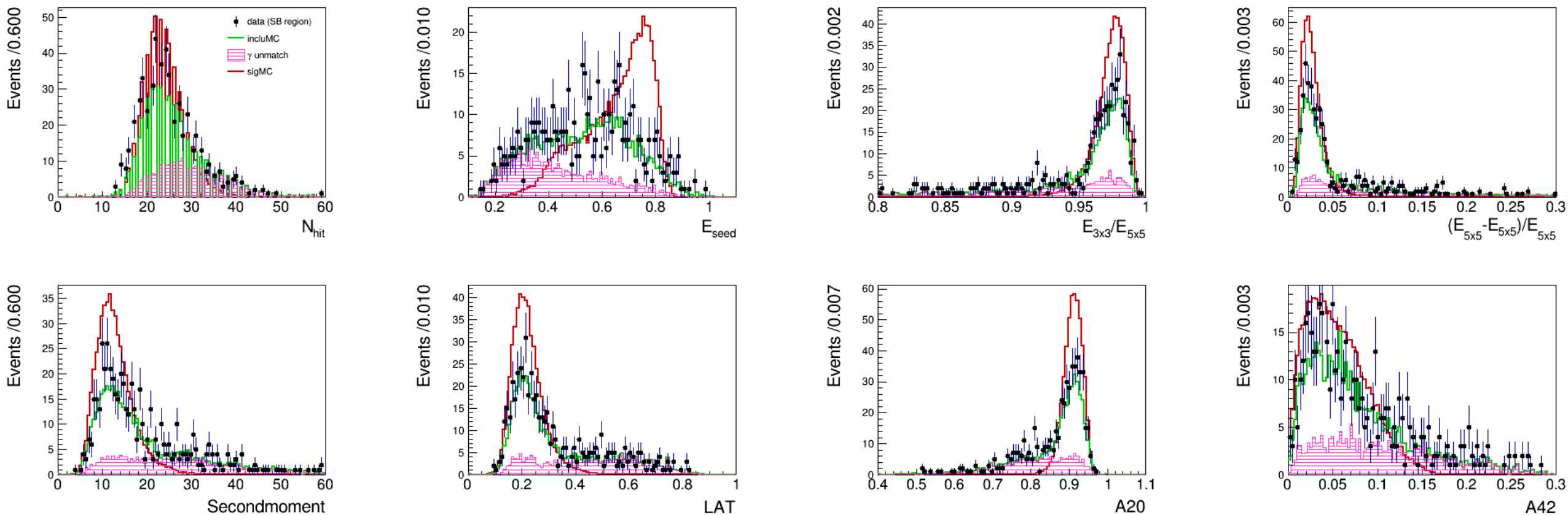


EMC Information in channel $D \rightarrow K\pi\pi^0$



EMC Information in channel $D \rightarrow K\pi\pi^0$



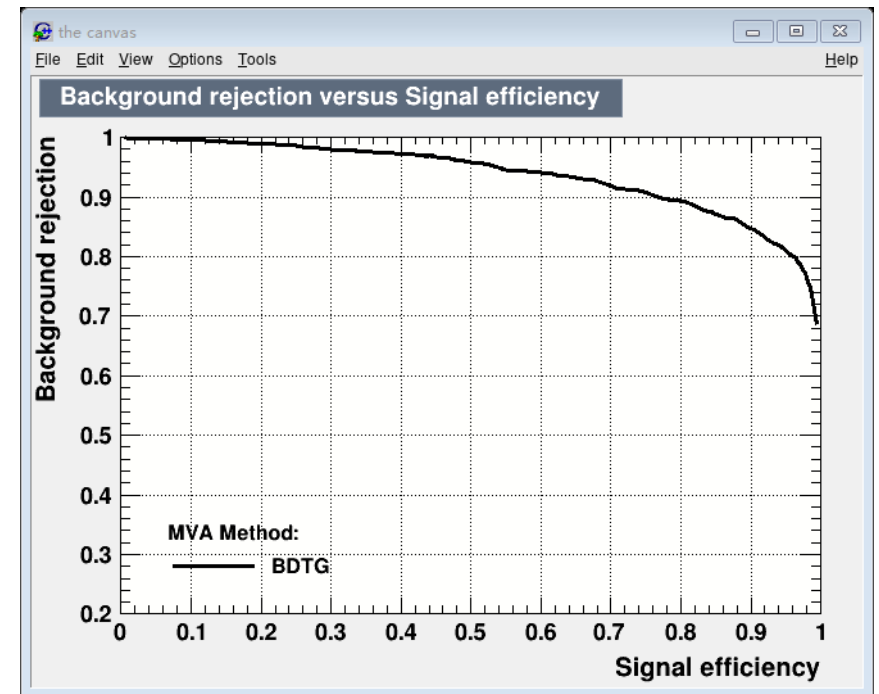
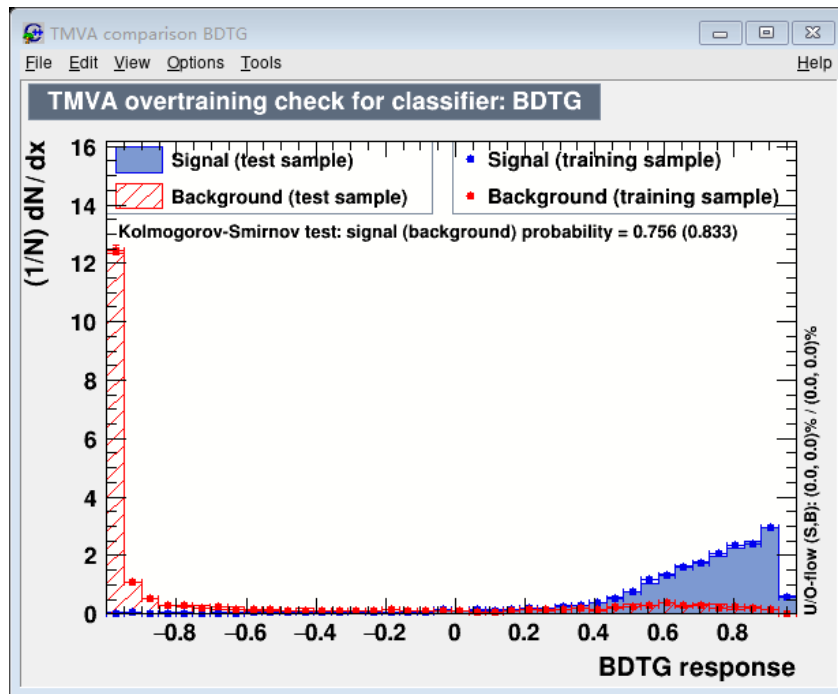
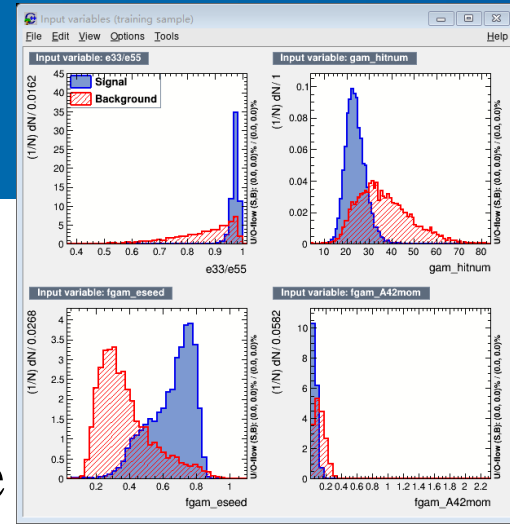
LATmoment < 0.35

Background rejection: 28.8%

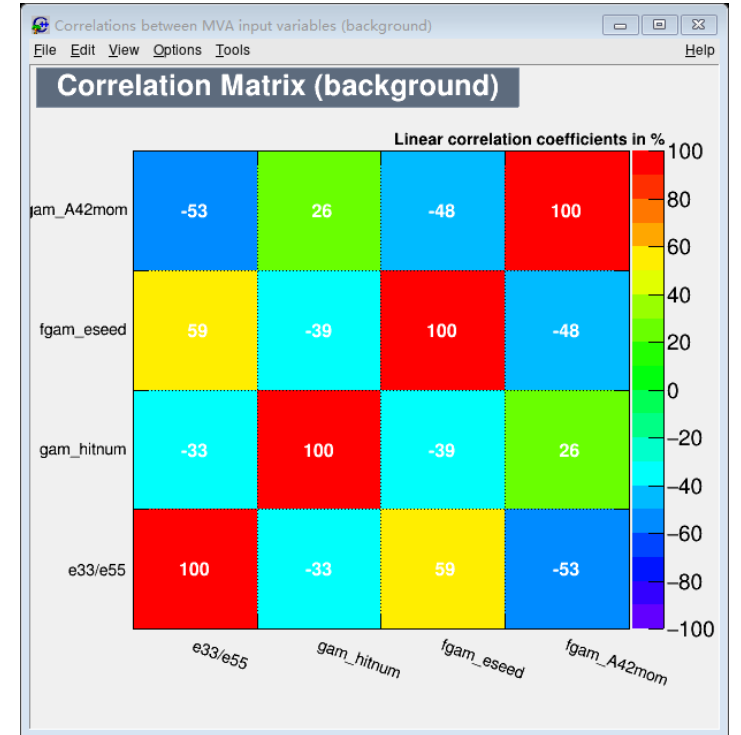
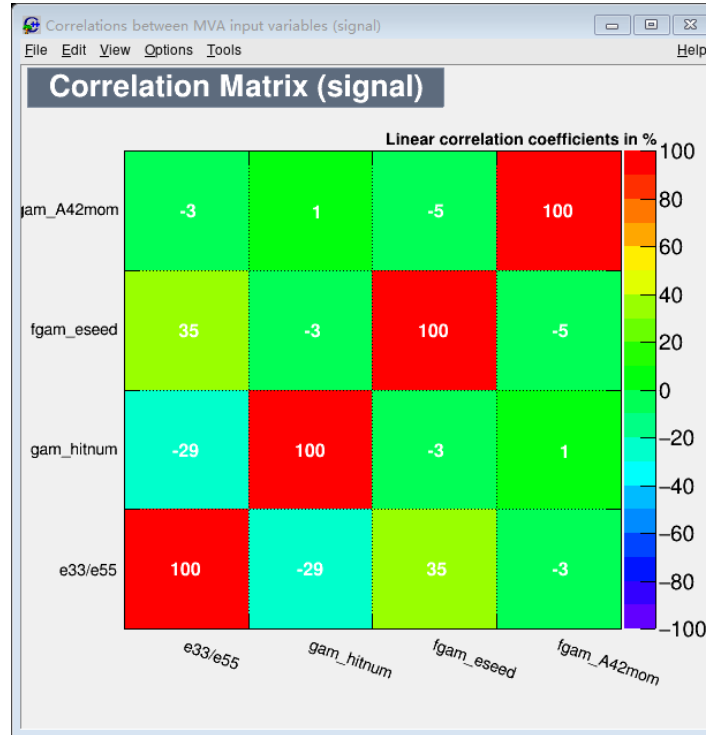
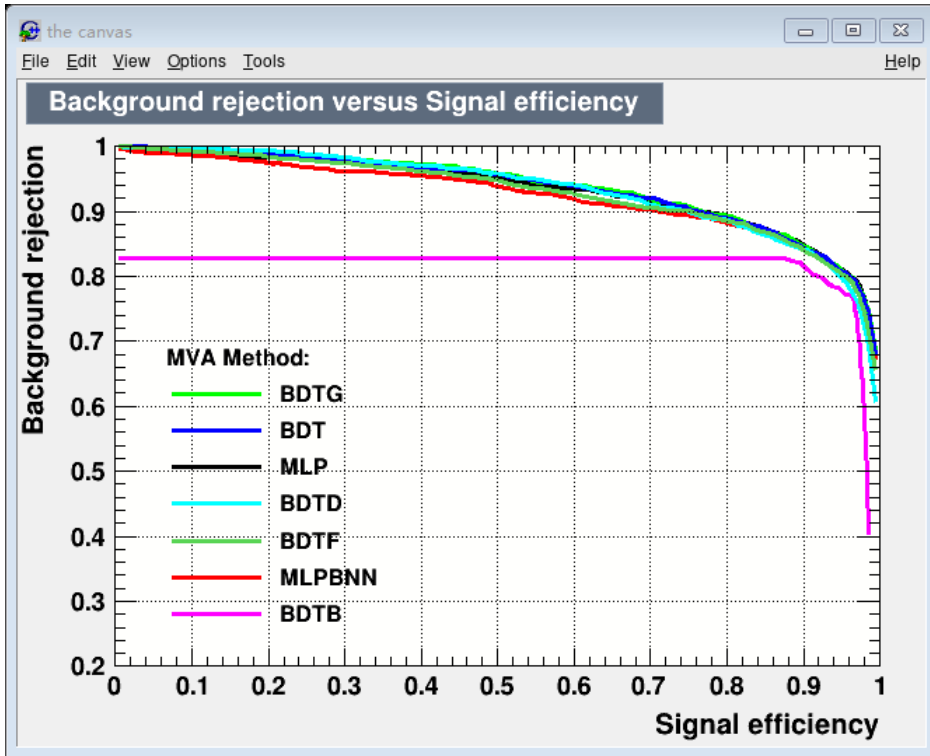
Signal efficiency: 96.6%

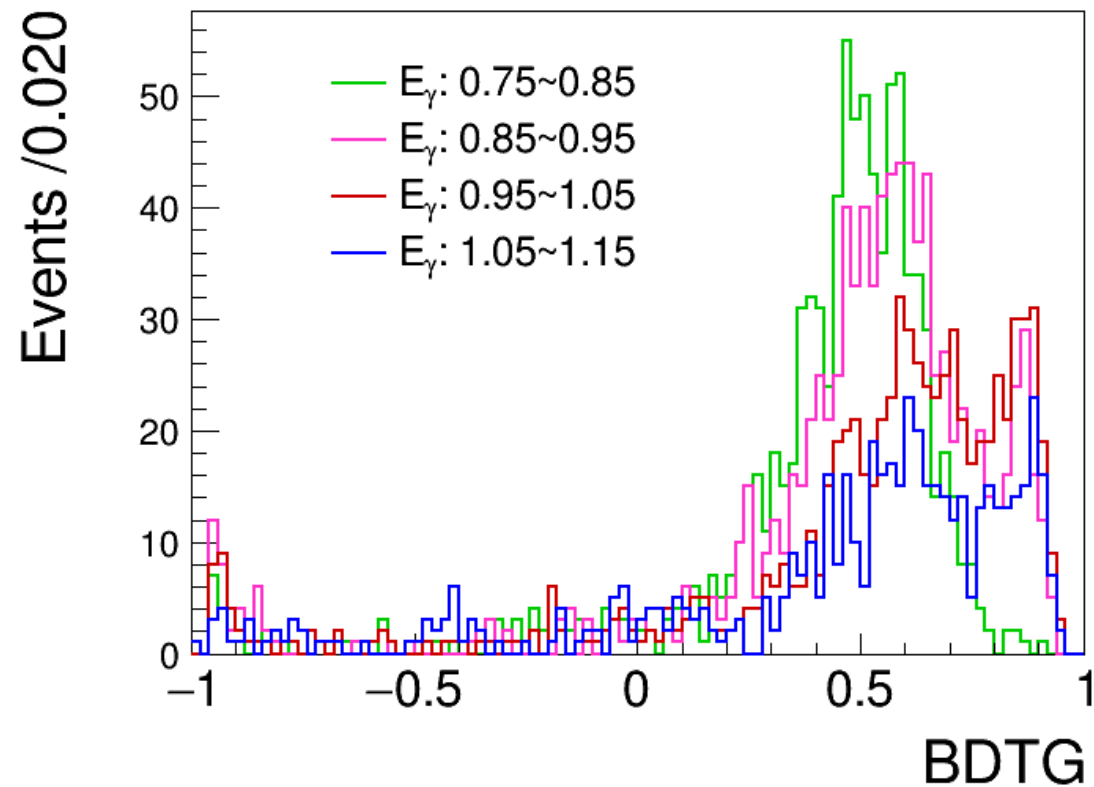
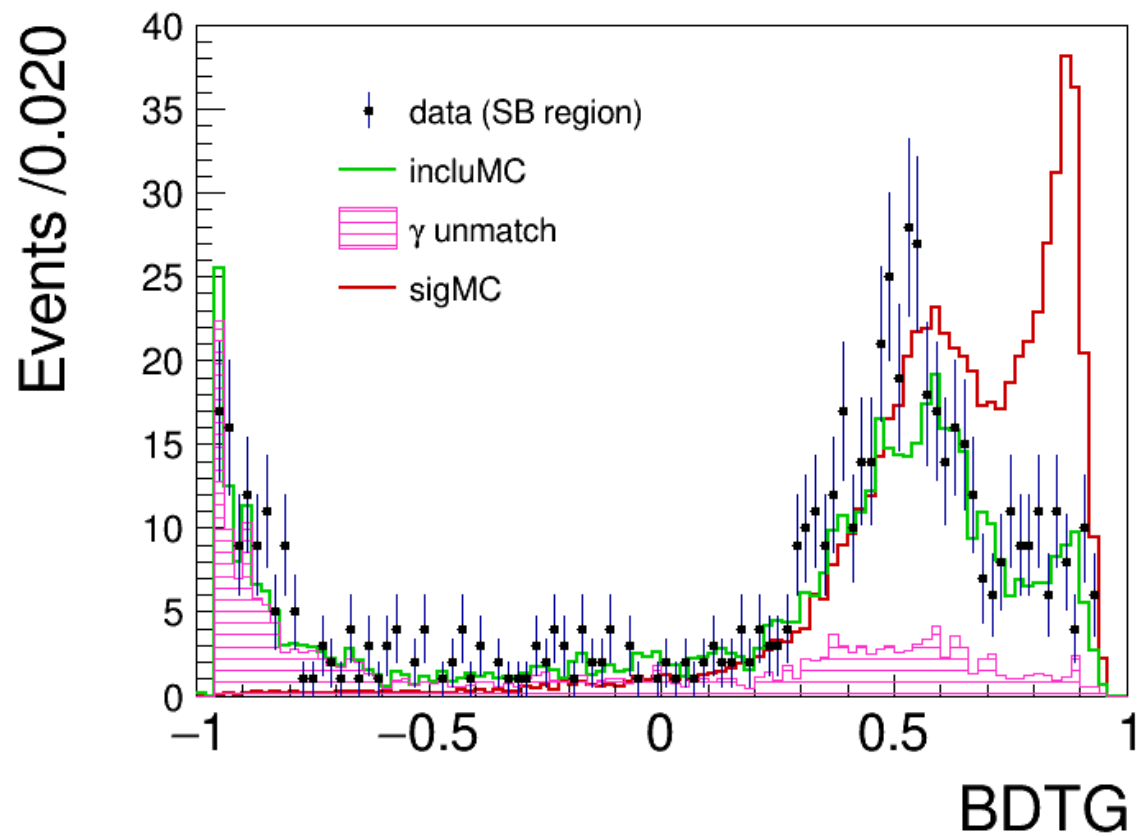
BDTG

- Input : $E_{3\times 3}/E_{5\times 5}$, N_{hit} , E_{seed} , A42
- Signal : signal MC $J/\psi \rightarrow \gamma K \pi \pi^0$ 10000 sample
- Background: exclusive MC $J/\psi \rightarrow \pi^0 K_L^0 K \pi$ 10000 sample

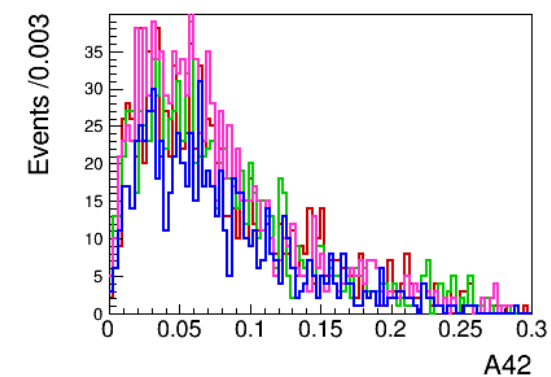
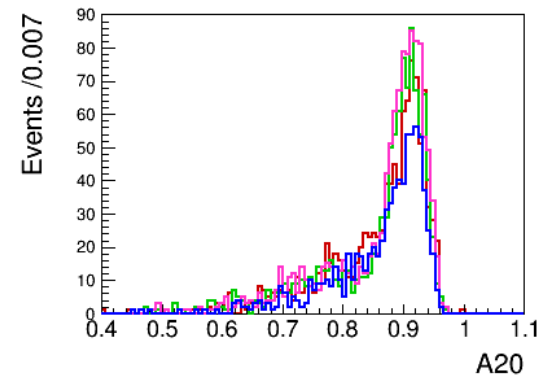
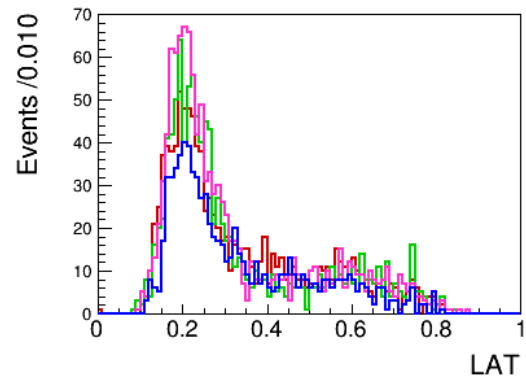
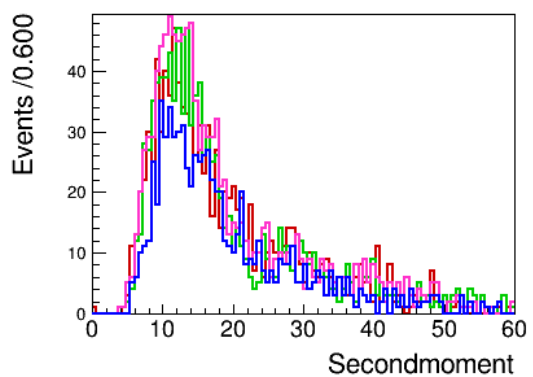
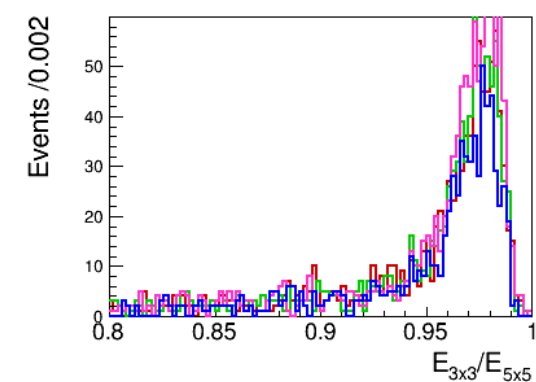
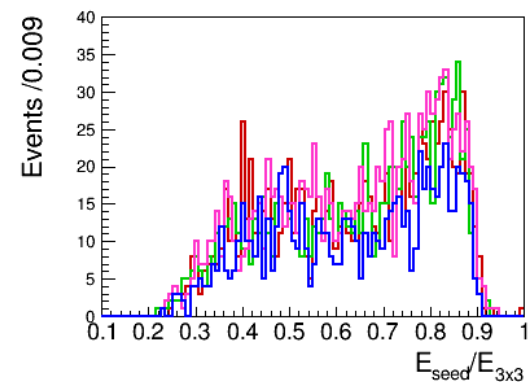
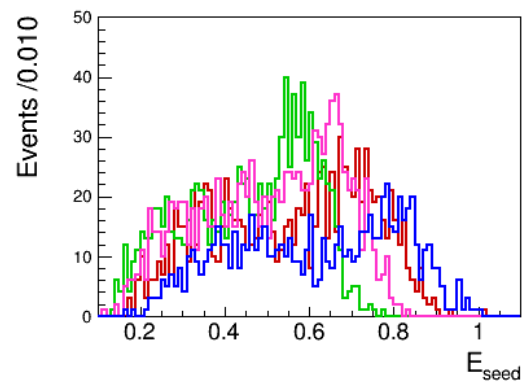
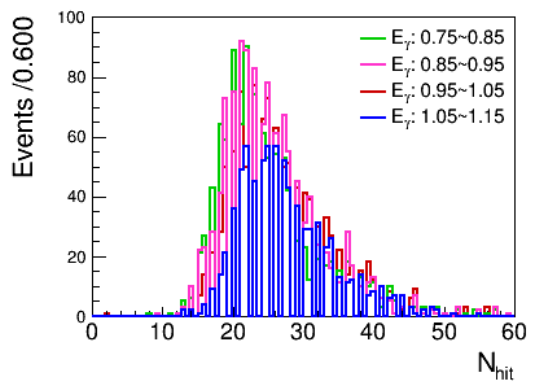


Comparison and Correlation Matrix

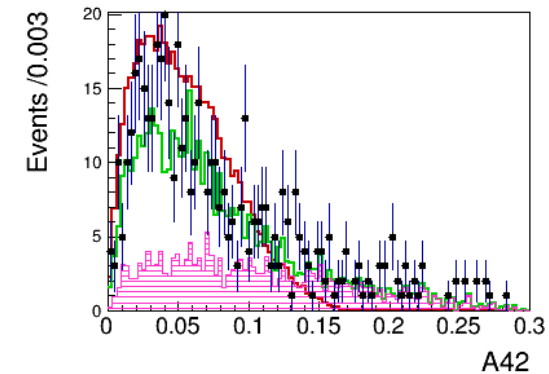
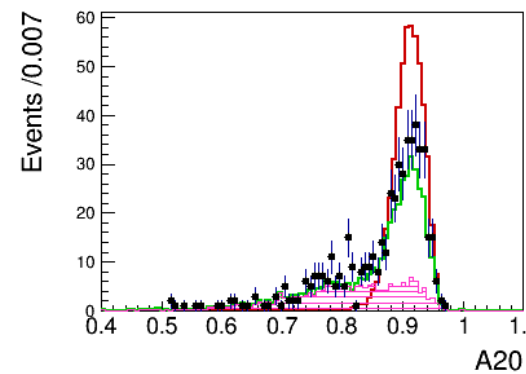
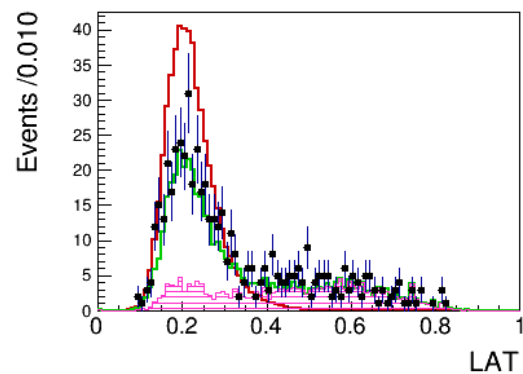
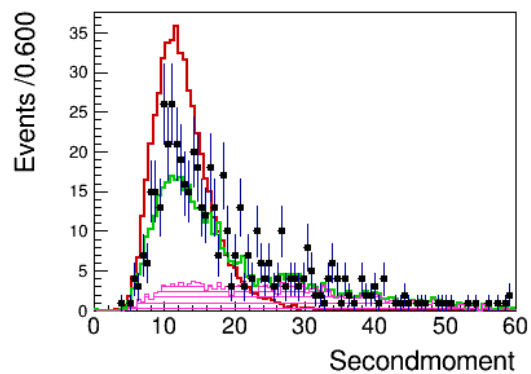
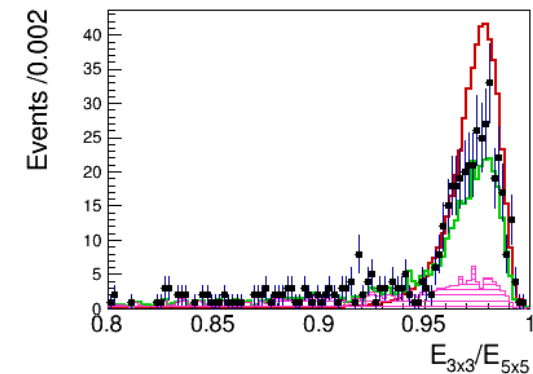
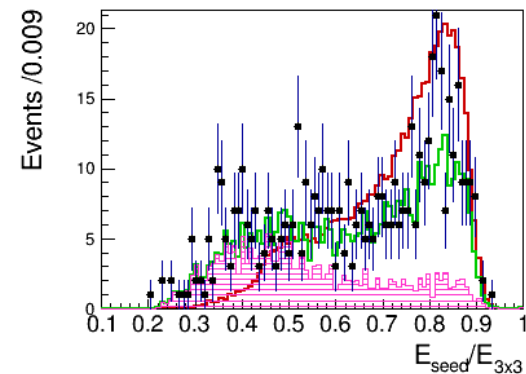
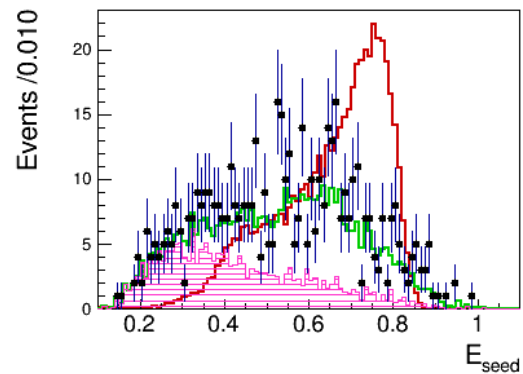
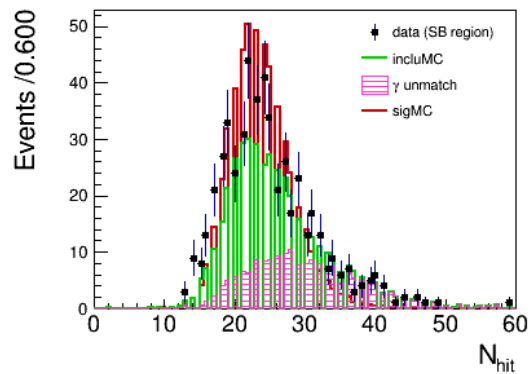




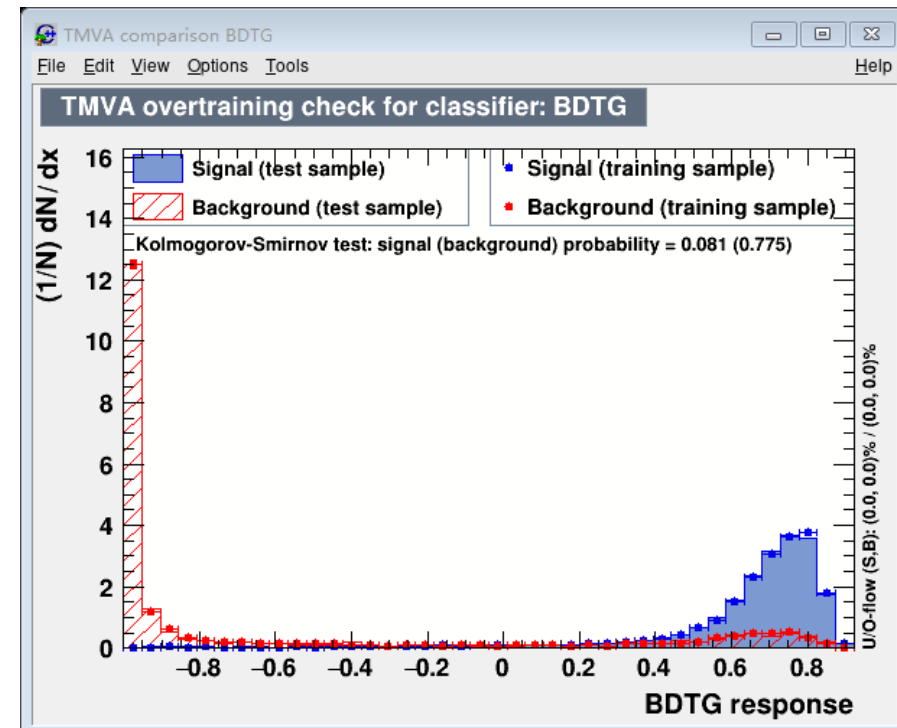
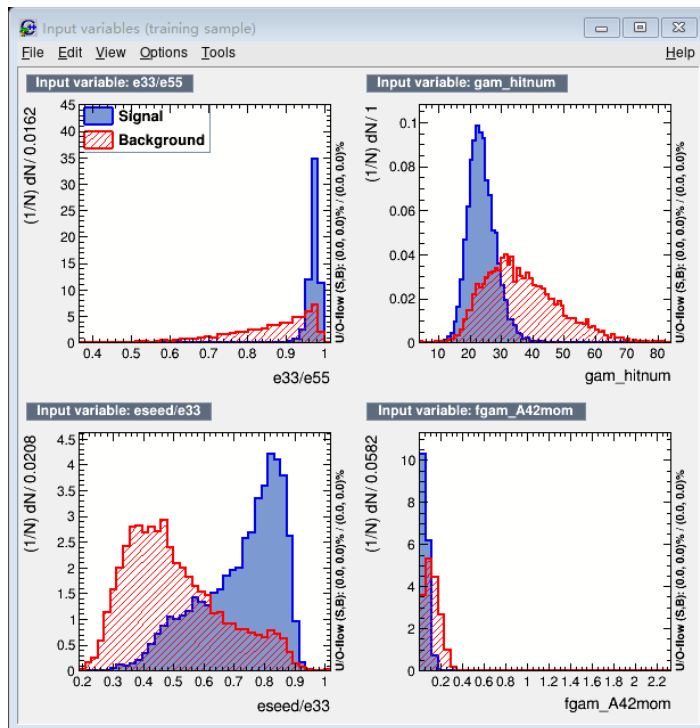
EMC Information in channel $D \rightarrow K\pi\pi^0$



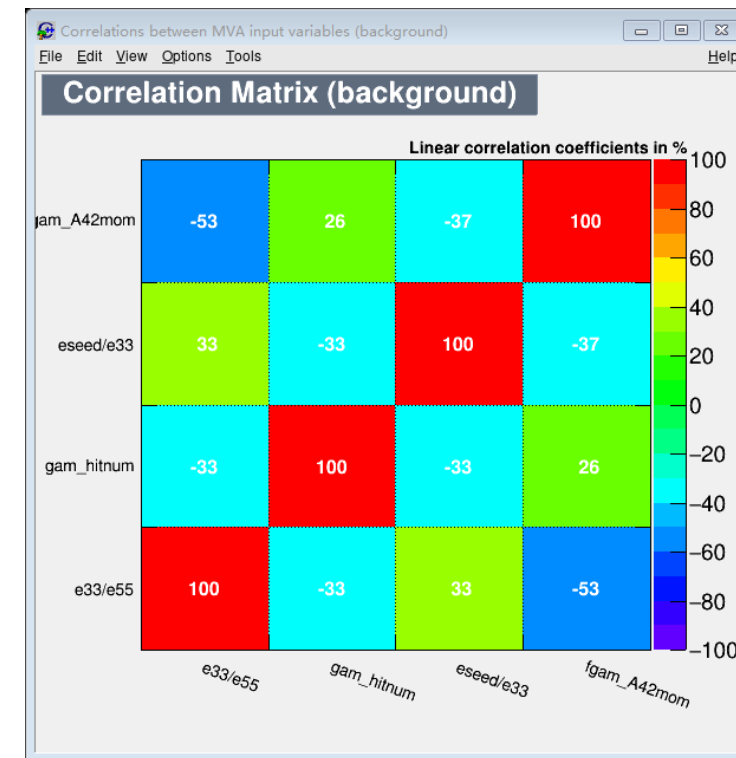
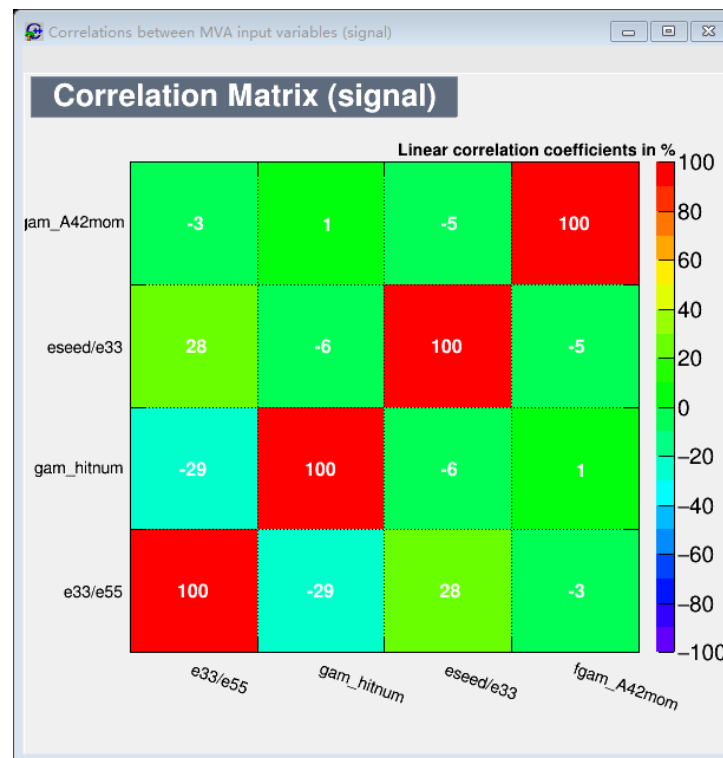
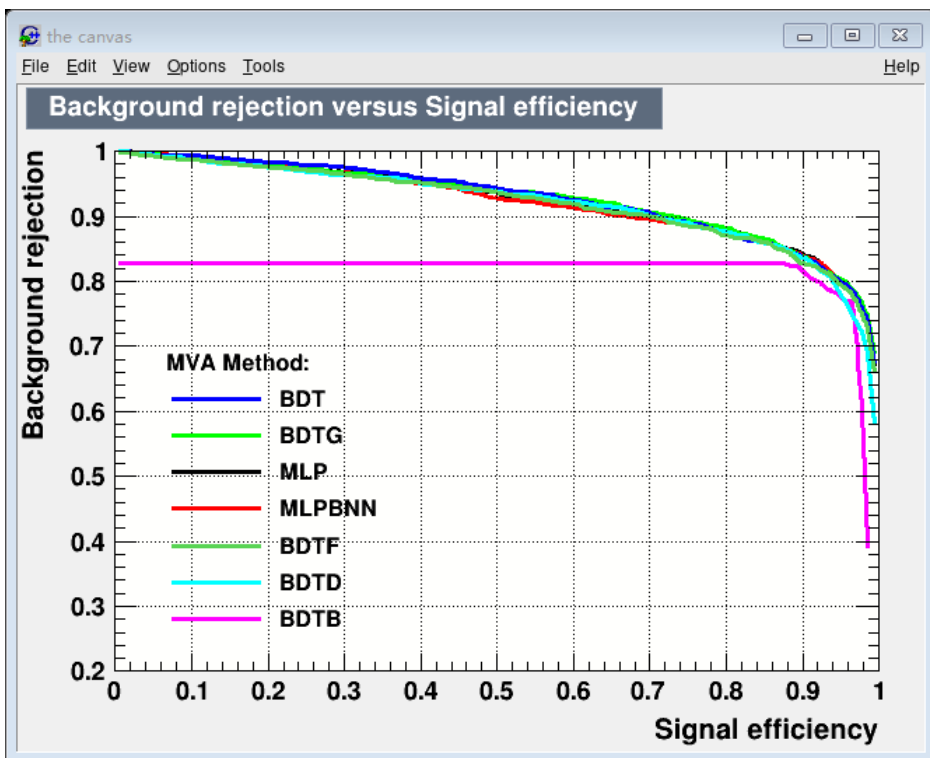
EMC Information in channel $D \rightarrow K\pi\pi^0$

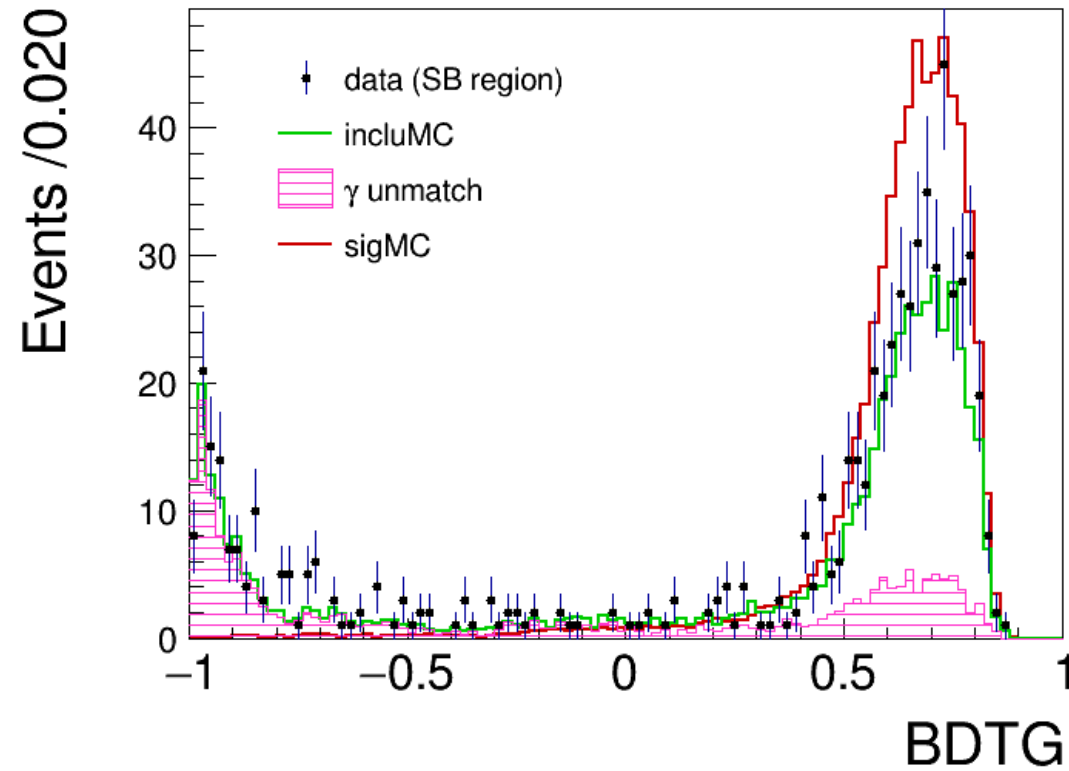


- Input : $E_{3\times 3}/E_{5\times 5}$, N_{hit} , $E_{seed}/E_{3\times 3}$, A42
- Signal : signal MC $J/\psi \rightarrow \gamma K \pi \pi^0$ 10000 sample
- Background: exclusive MC $J/\psi \rightarrow \pi^0 K_L^0 K \pi$ 10000 sample

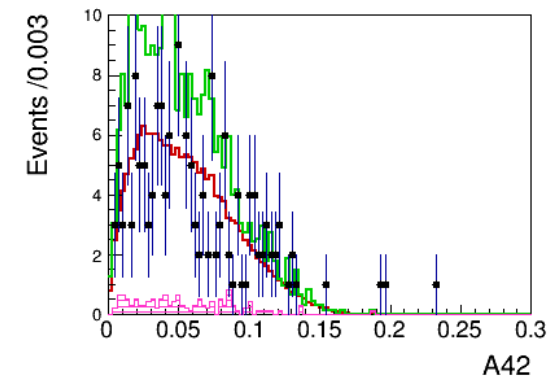
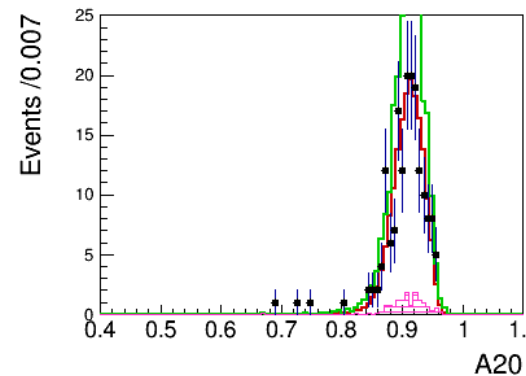
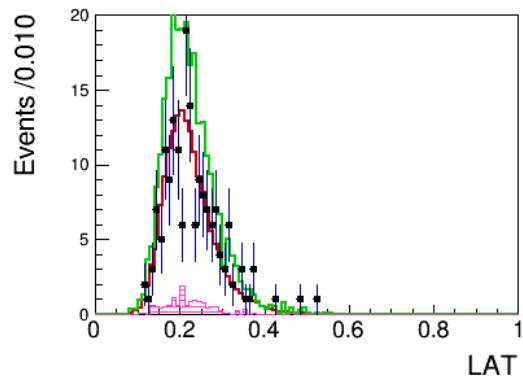
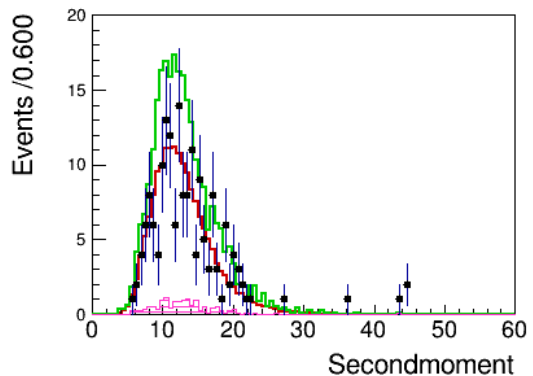
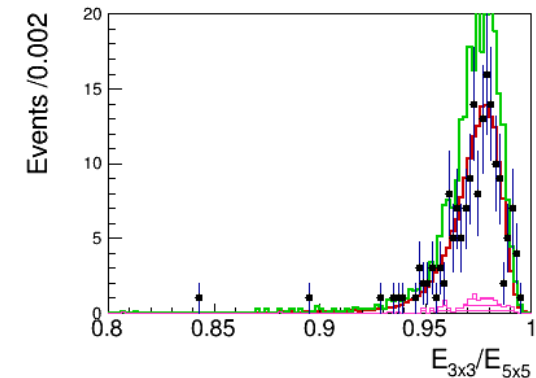
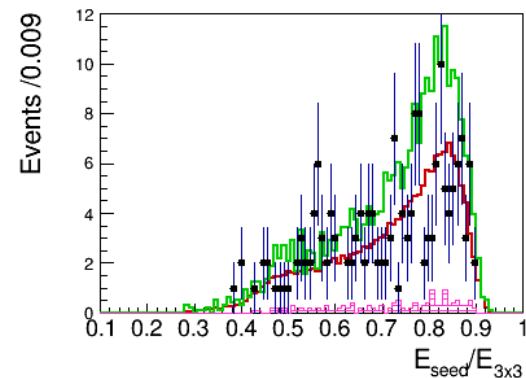
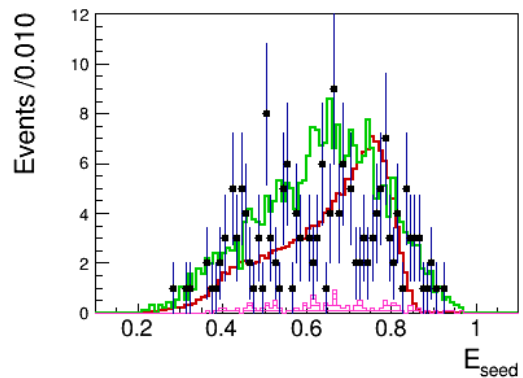
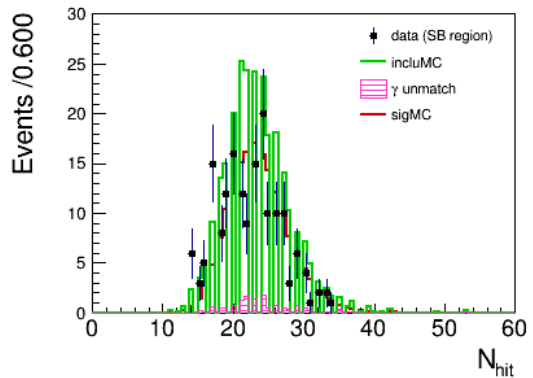


Comparison and Correlation Matrix

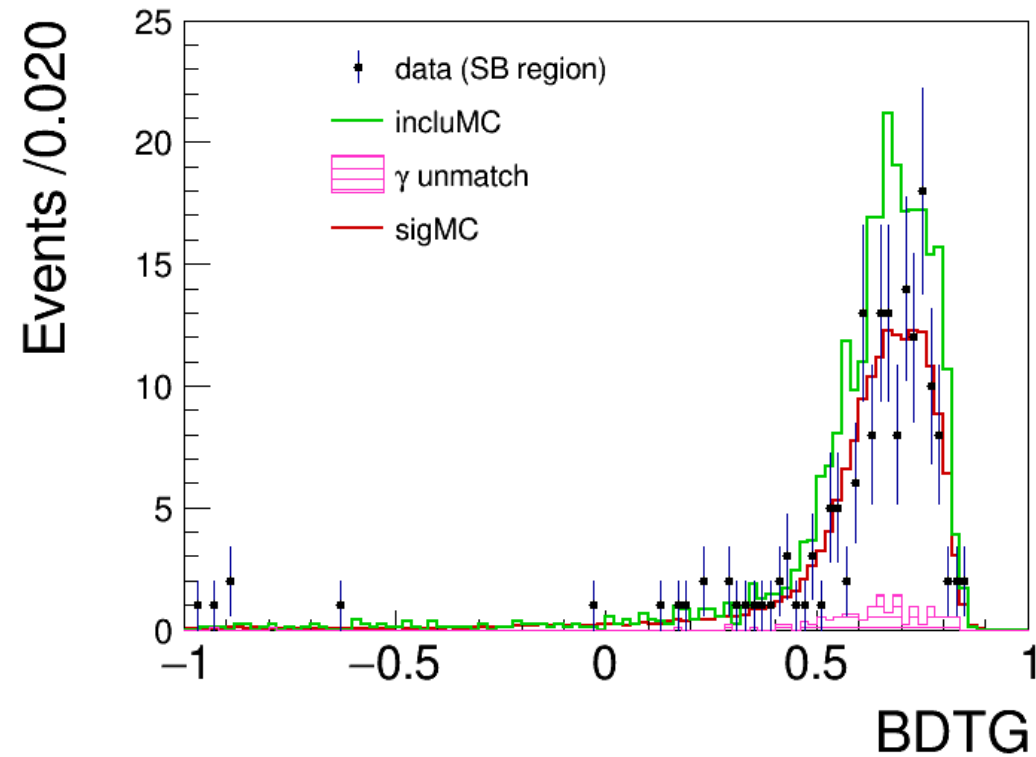




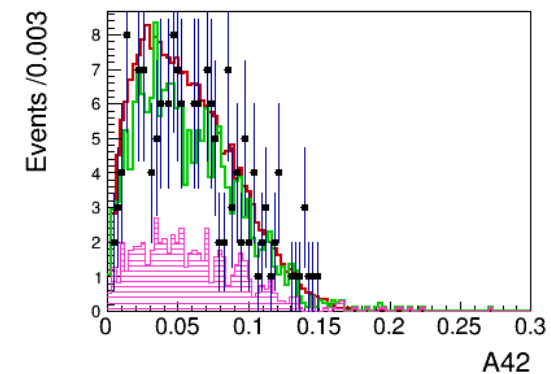
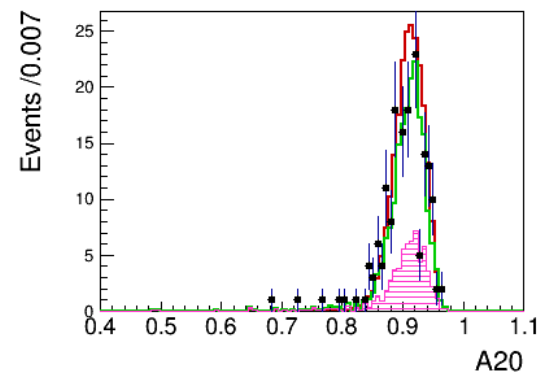
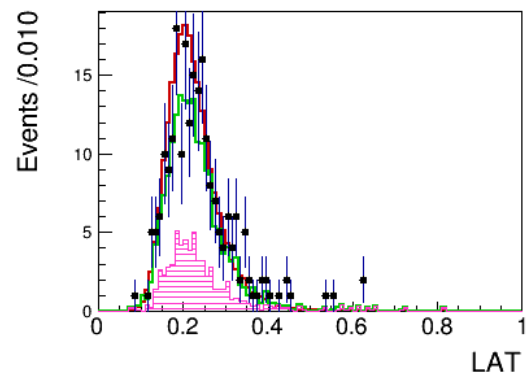
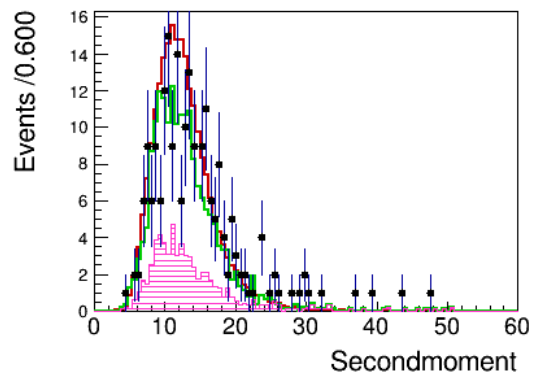
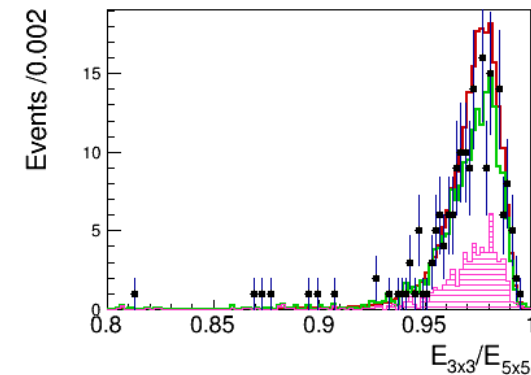
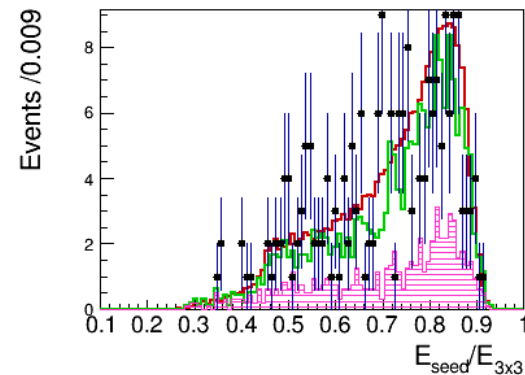
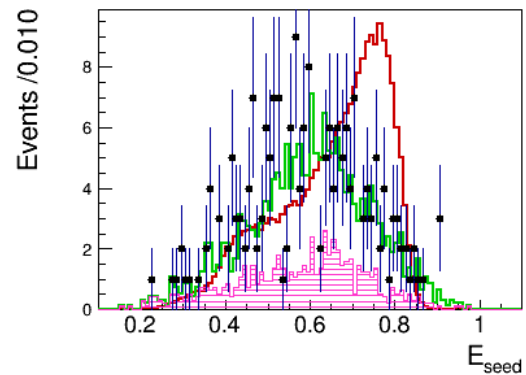
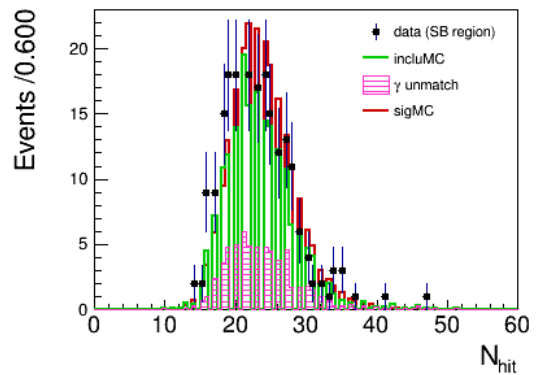
EMC Information in channel $D \rightarrow K\pi$



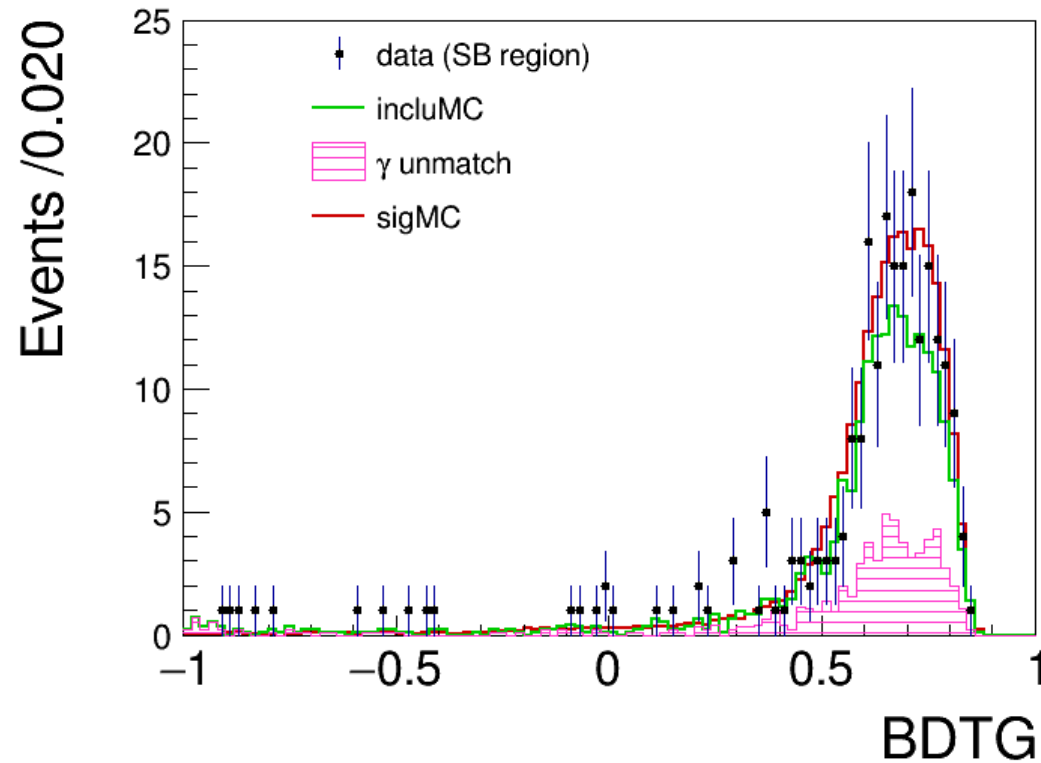
BDTG in channel $D \rightarrow K\pi$



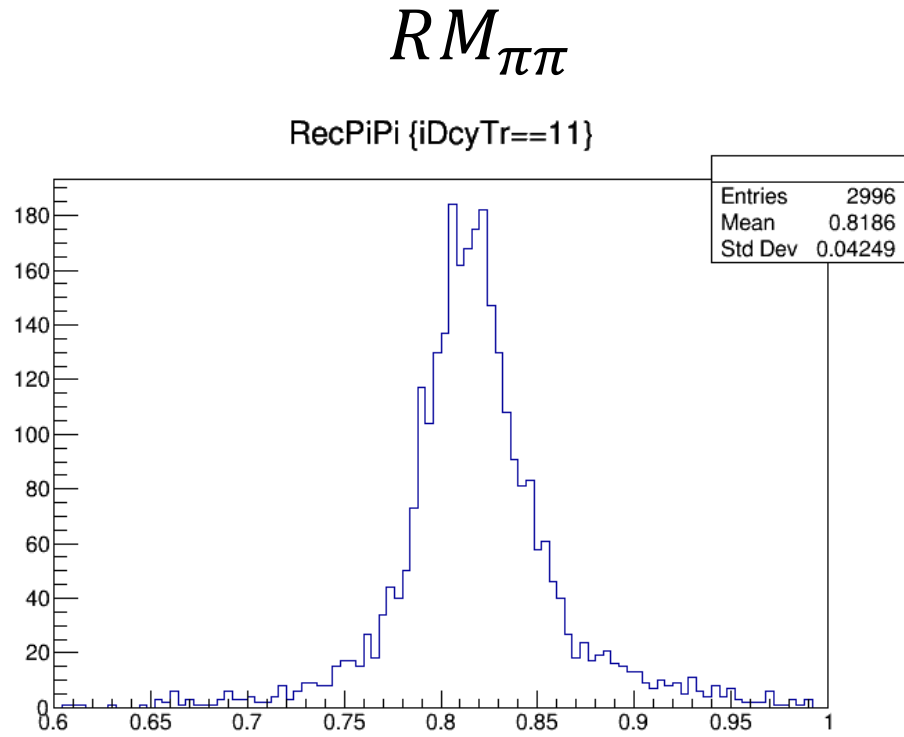
EMC Information in channel $D \rightarrow K\pi\pi\pi$



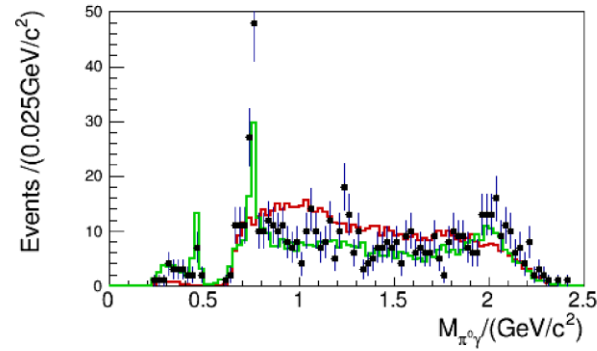
BDTG in channel $D \rightarrow K\pi\pi\pi$



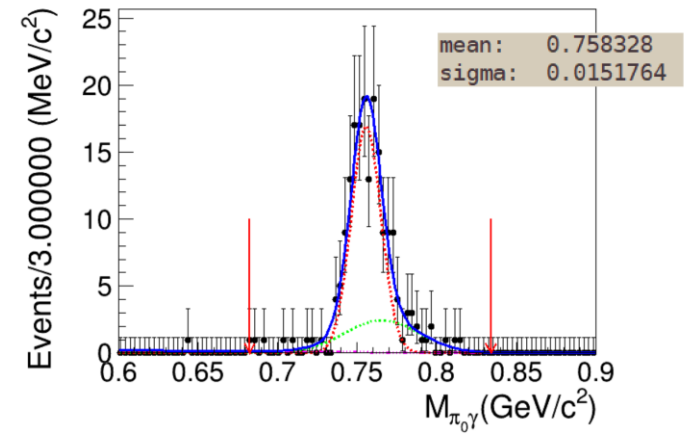
$RM_{\pi\pi}$ and $M_{\pi^0\gamma}$ in channel $D \rightarrow K\pi$



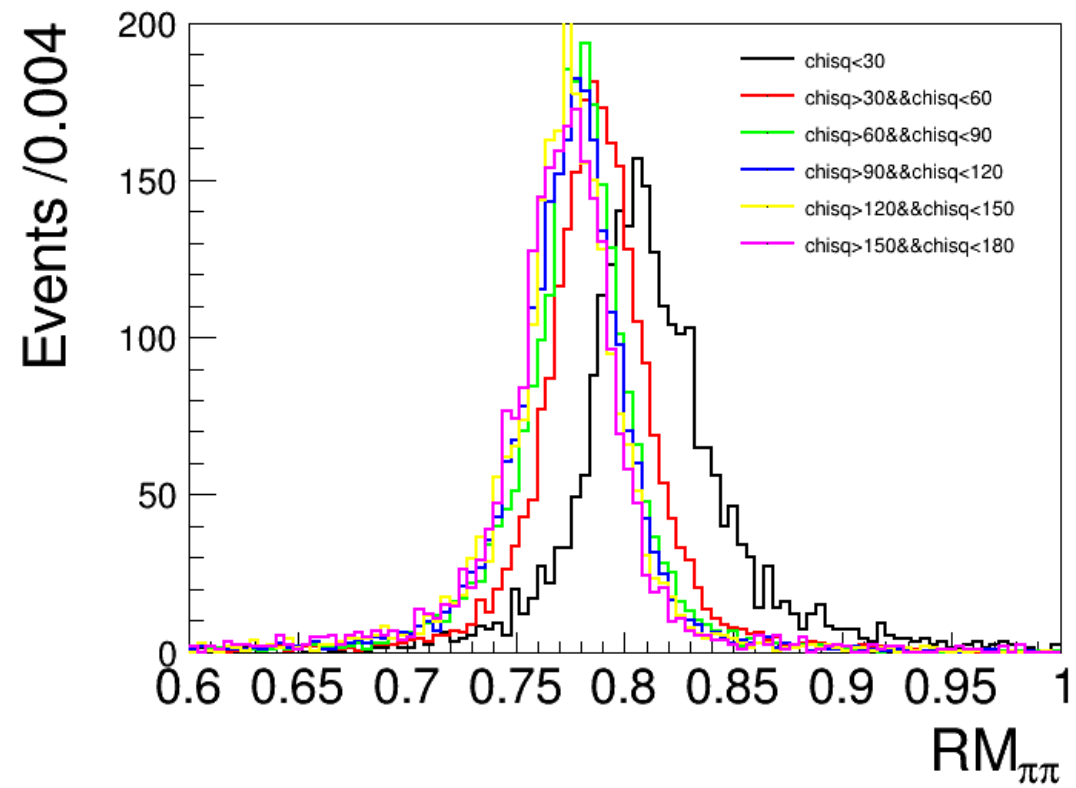
反冲的 π 是经过PID的



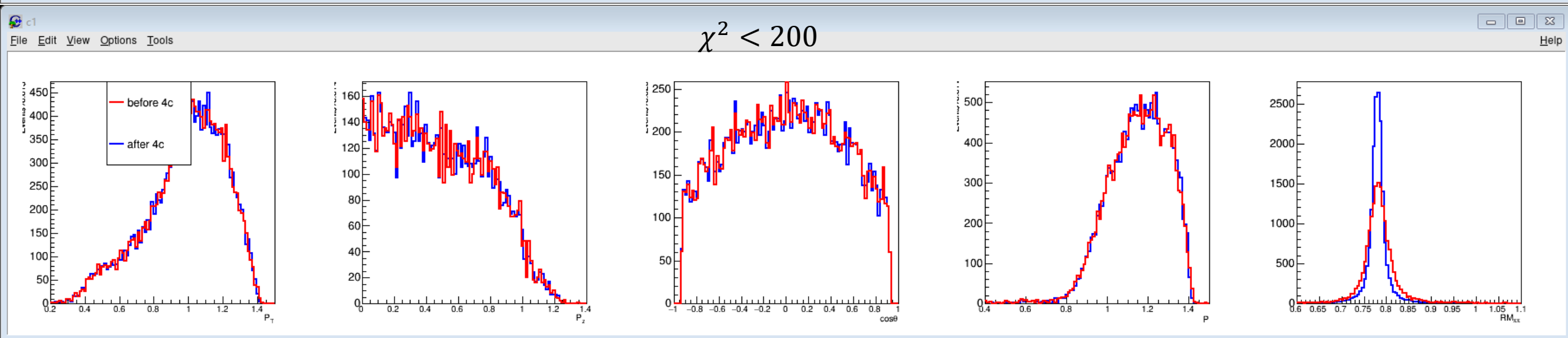
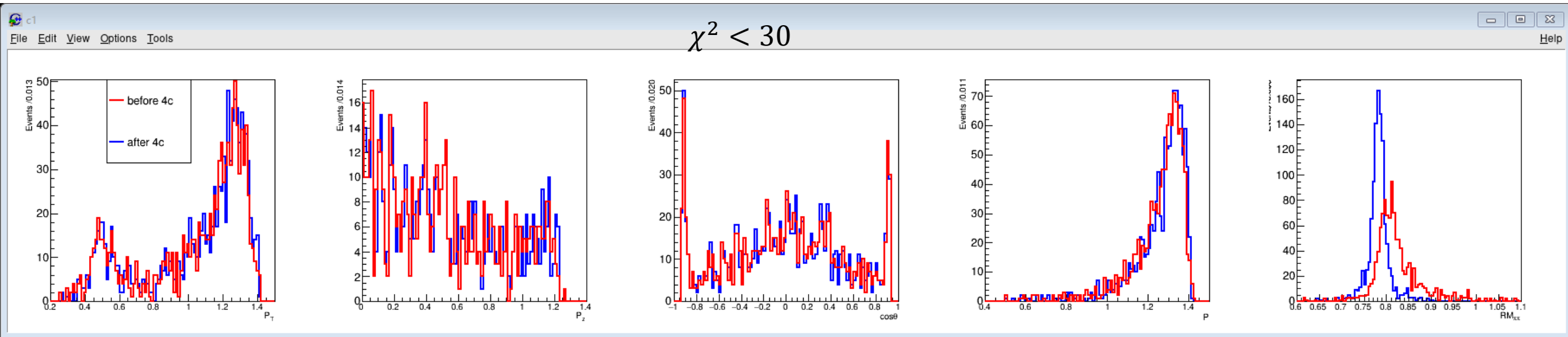
$M_{\pi^0\gamma}$

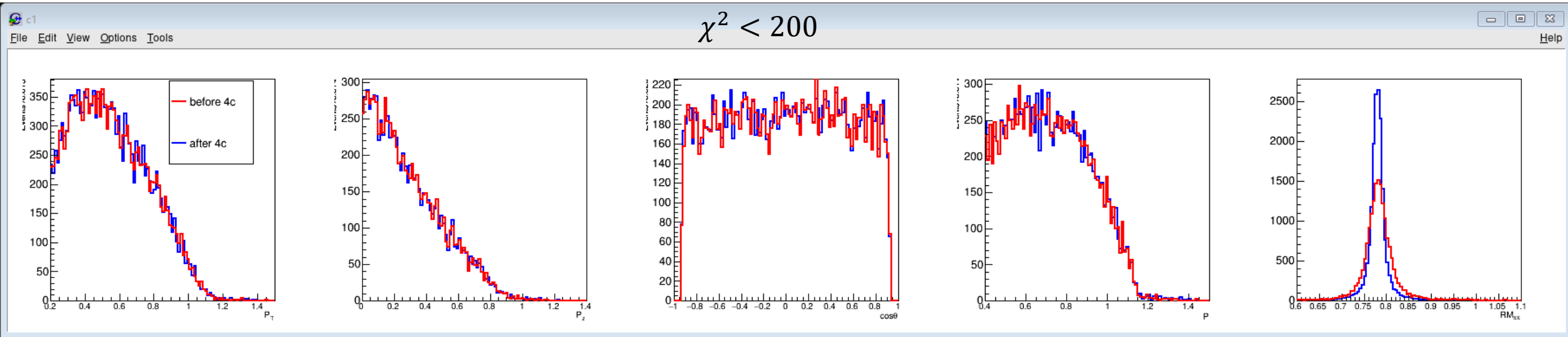
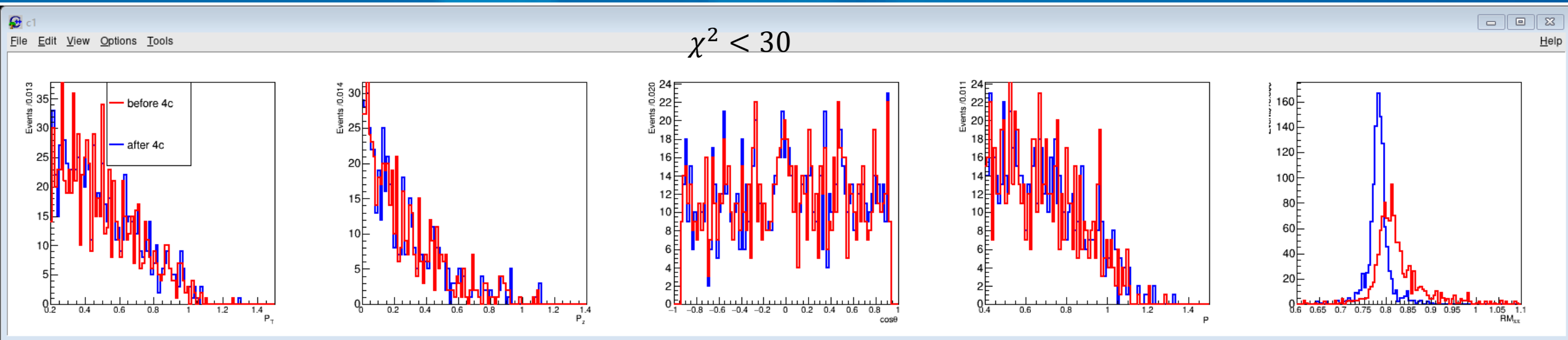


Mass window($\pm 5\sigma$): $0.68 < M_{\pi^0\gamma} < 0.83$



π miss to K



π 

2022/12/14

 $J/\psi \rightarrow \gamma D$

18

Back up

BDTG

- Input : $E_{3 \times 3} / E_{5 \times 5}$, N_{hit} , E_{seed} , A42
- Signal : signal MC Background: inclusive MC

