

Incl. tag sample

Sample of 1.0M events

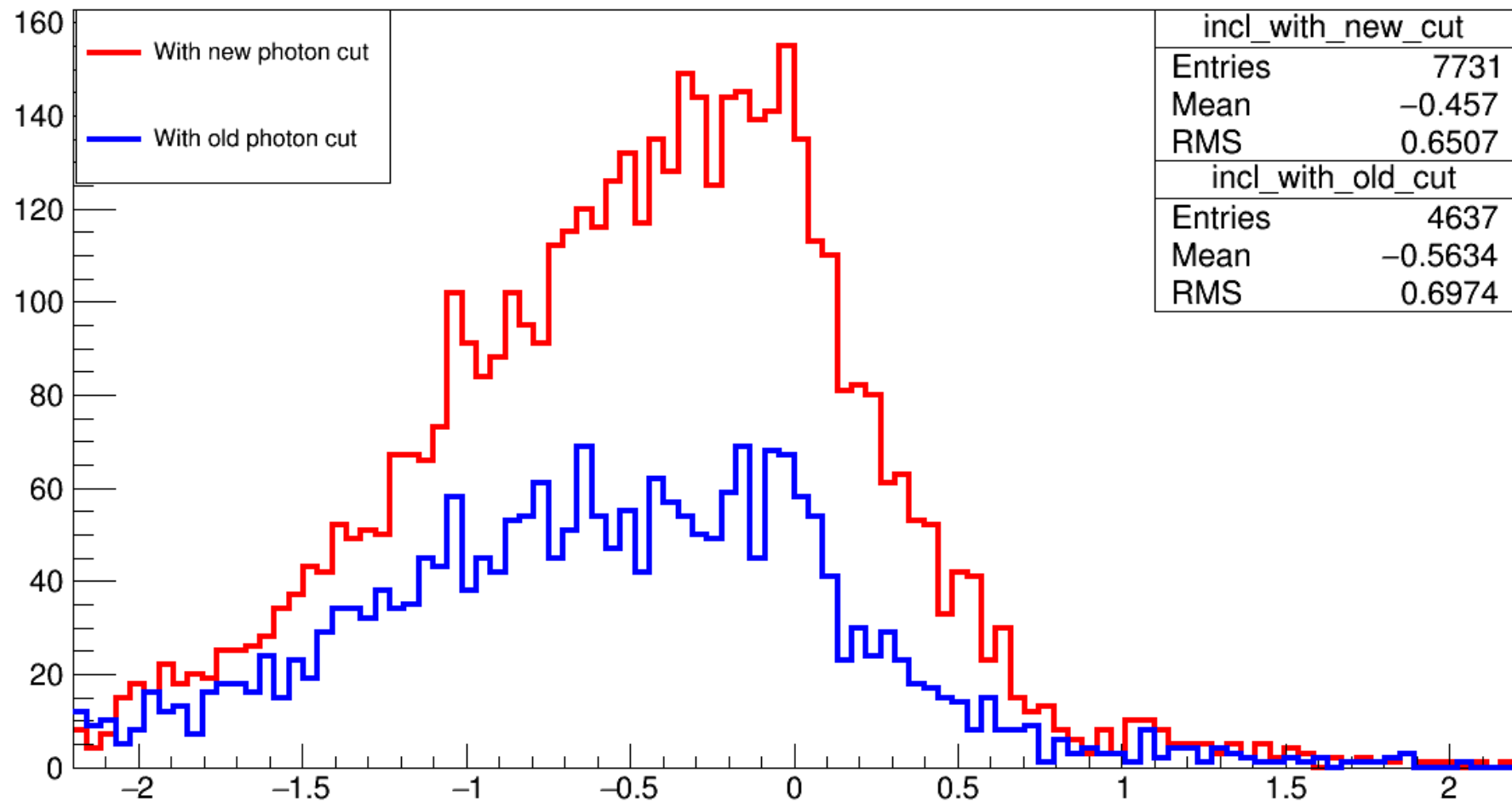
$$B^+ \rightarrow K^+ \tau^- \mu^+$$

$$\tau^- \rightarrow \pi^- \nu_\tau$$

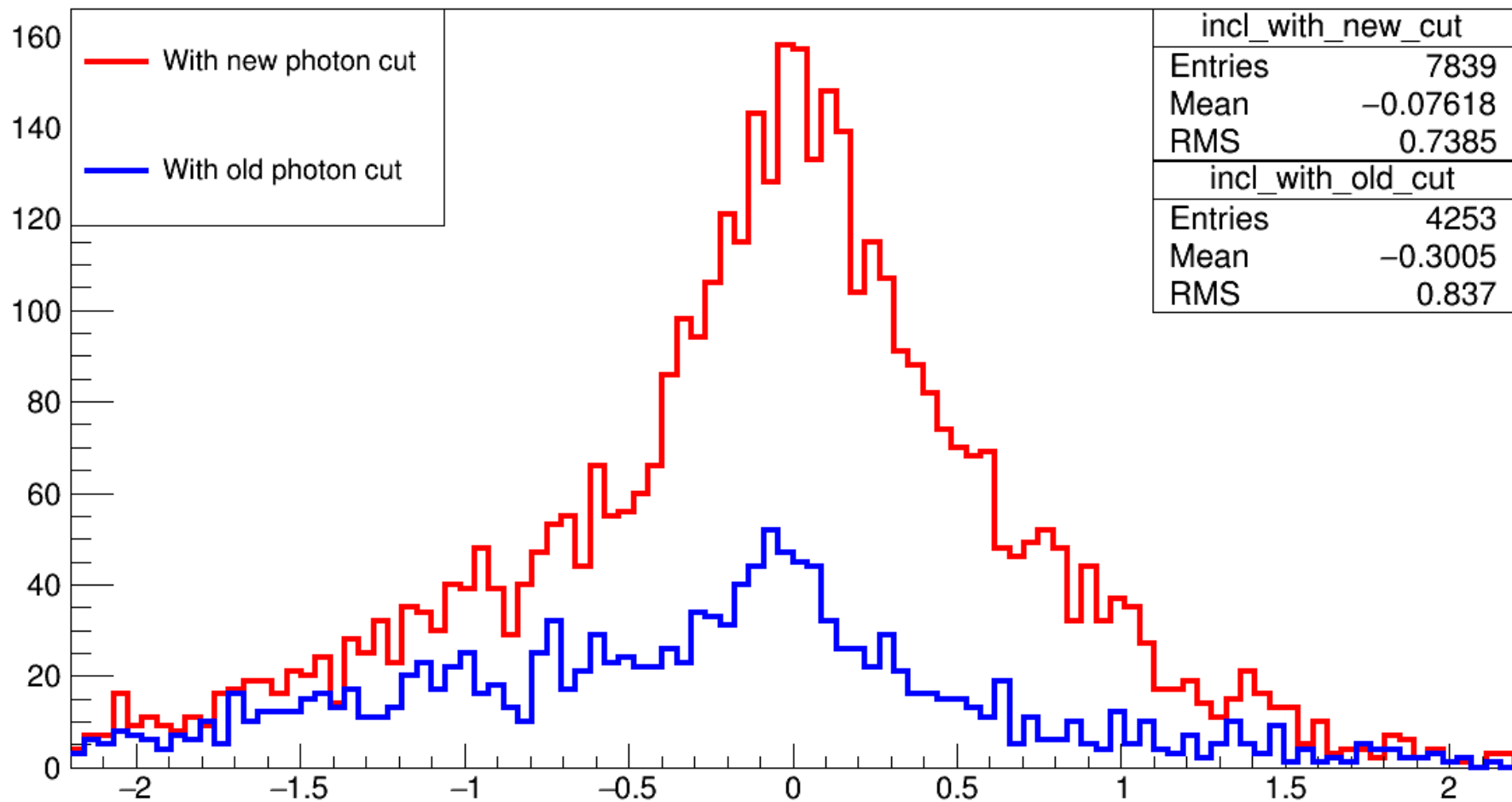
$$B^- \rightarrow \text{generic}$$

31/10/2023

Best sum of cosine angles, rank1 $m_D < 1.86$



Best sum of cosine angles, rank1 $m_D > 2.006$



Excl. and Incl. D^* reconstruction

Sample of 100K events

$$B^+ \rightarrow K^+ \tau^- \mu^+$$

$$\tau^- \rightarrow \pi^- \nu_\tau$$

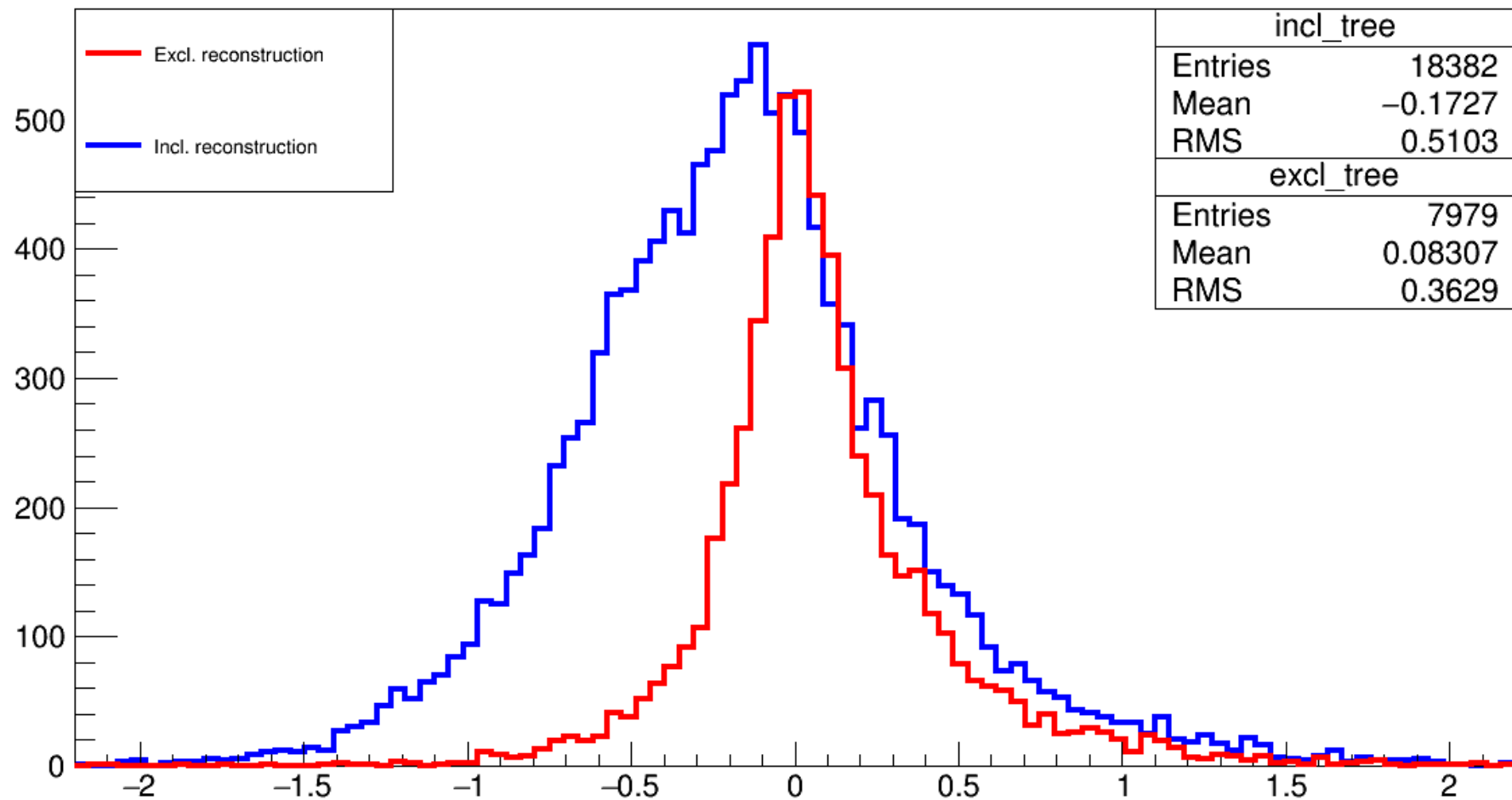
$$B^- \rightarrow D^* \mu^- \bar{\nu}_\mu$$

$$D^* \rightarrow D^0 \pi^0$$

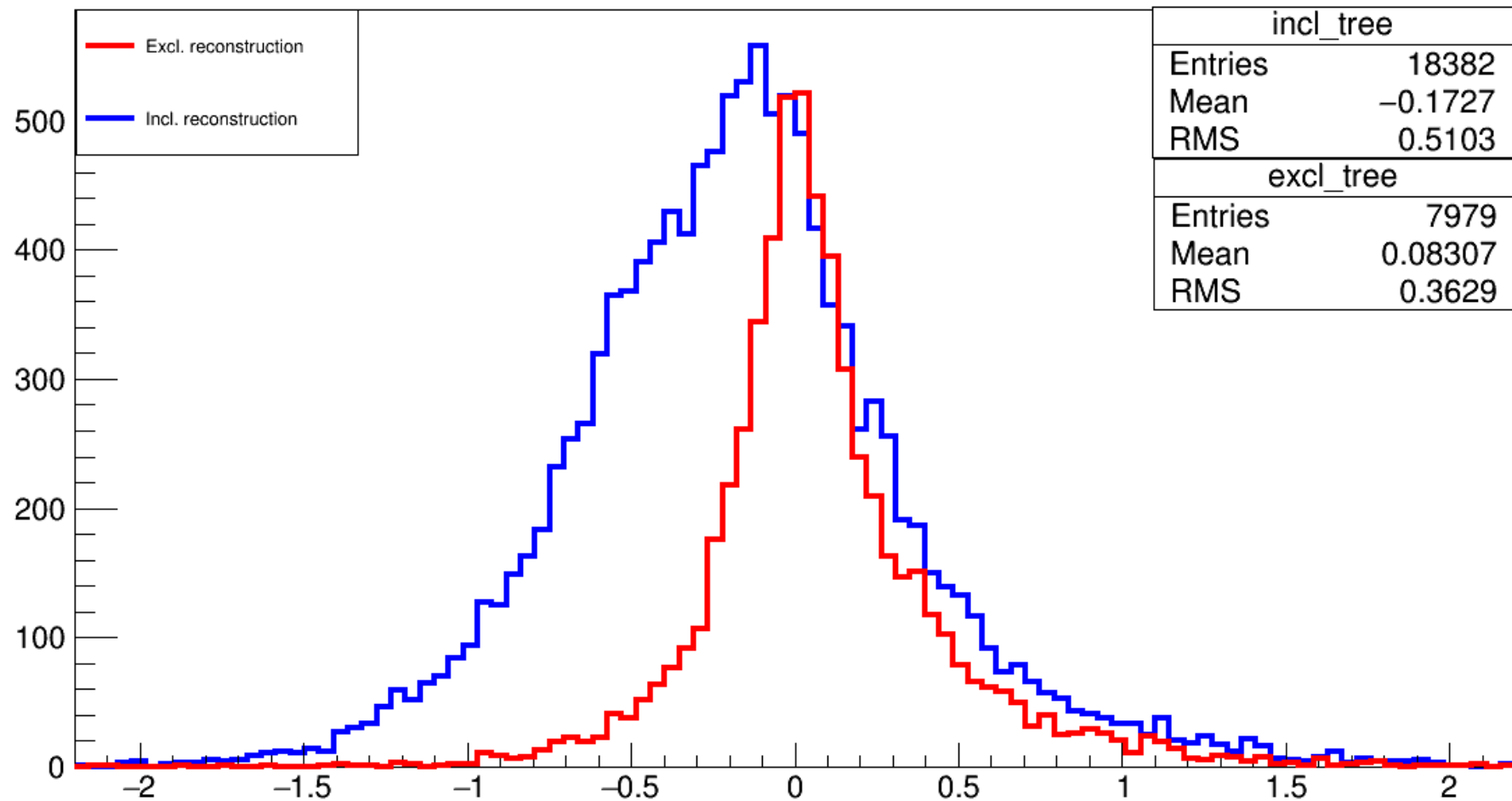
$$D^0 \rightarrow K^- \pi^+$$

All the next graphs have the photon cuts included

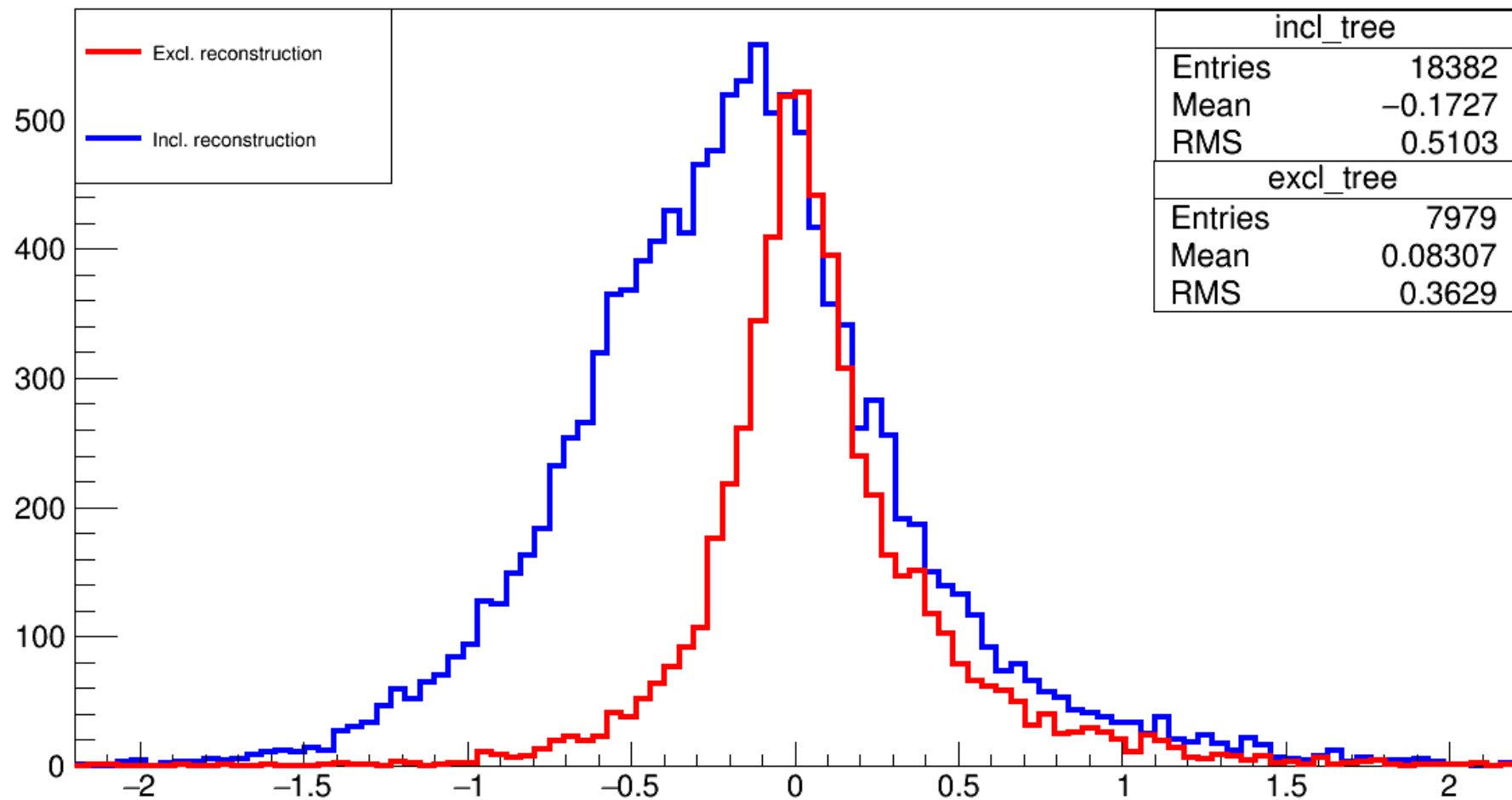
Best sum of cosine angles, rank1 and $1.5 < m_{D^*} < 2.42$



Best sum of cosine angles, rank1 and $1.84 < m_{D^*} < 1.88$



Best sum of cosine angles, rank1 and $1.98 < m_{D^*} < 2.2$



Thanks