

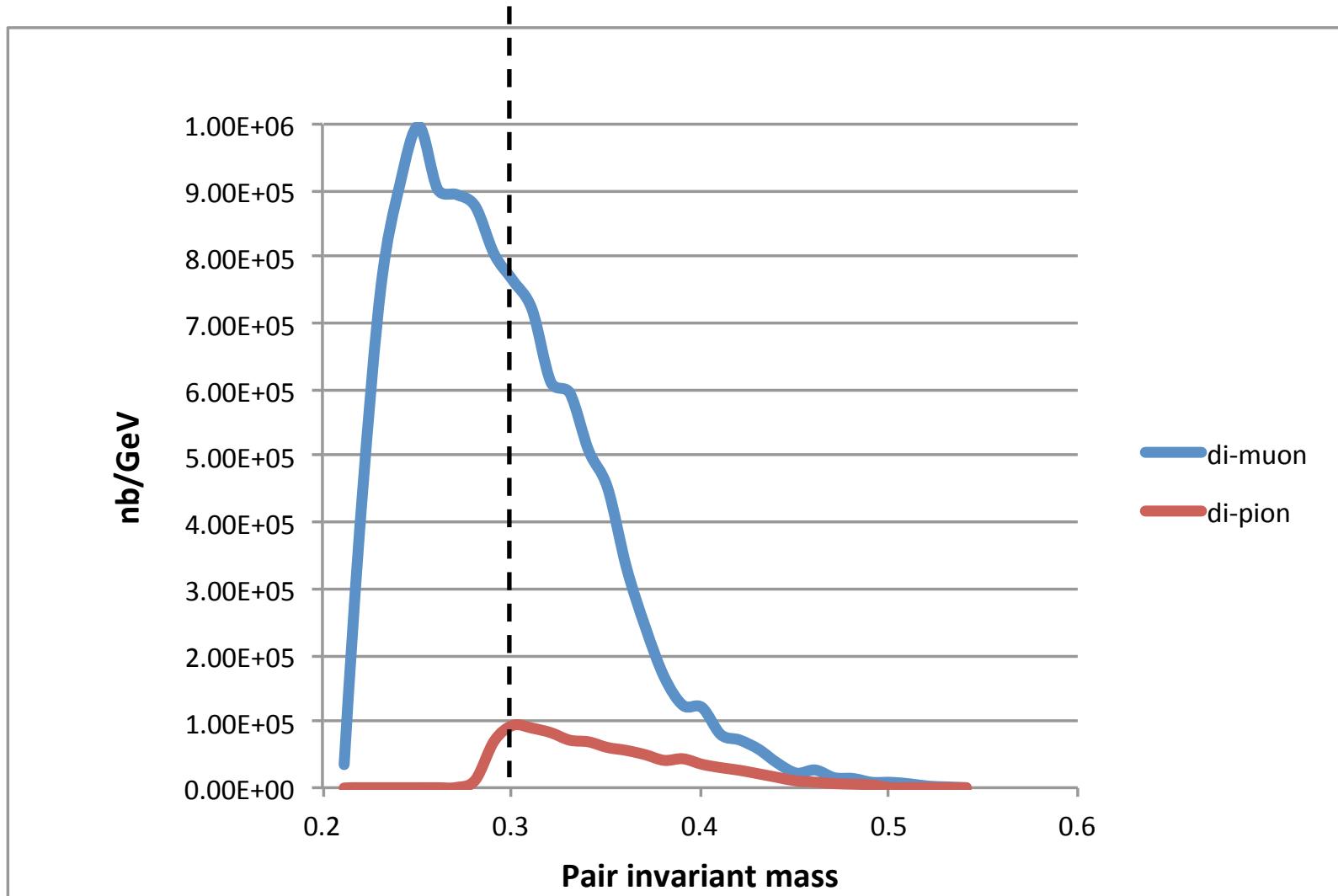
Integrate  $\mu^+\mu^-$  Bethe-Heitler and  $\pi^+\pi^-$  Primakoff cross sections for:

$E_\gamma = 5.5 \text{ GeV}$

$Z=82$

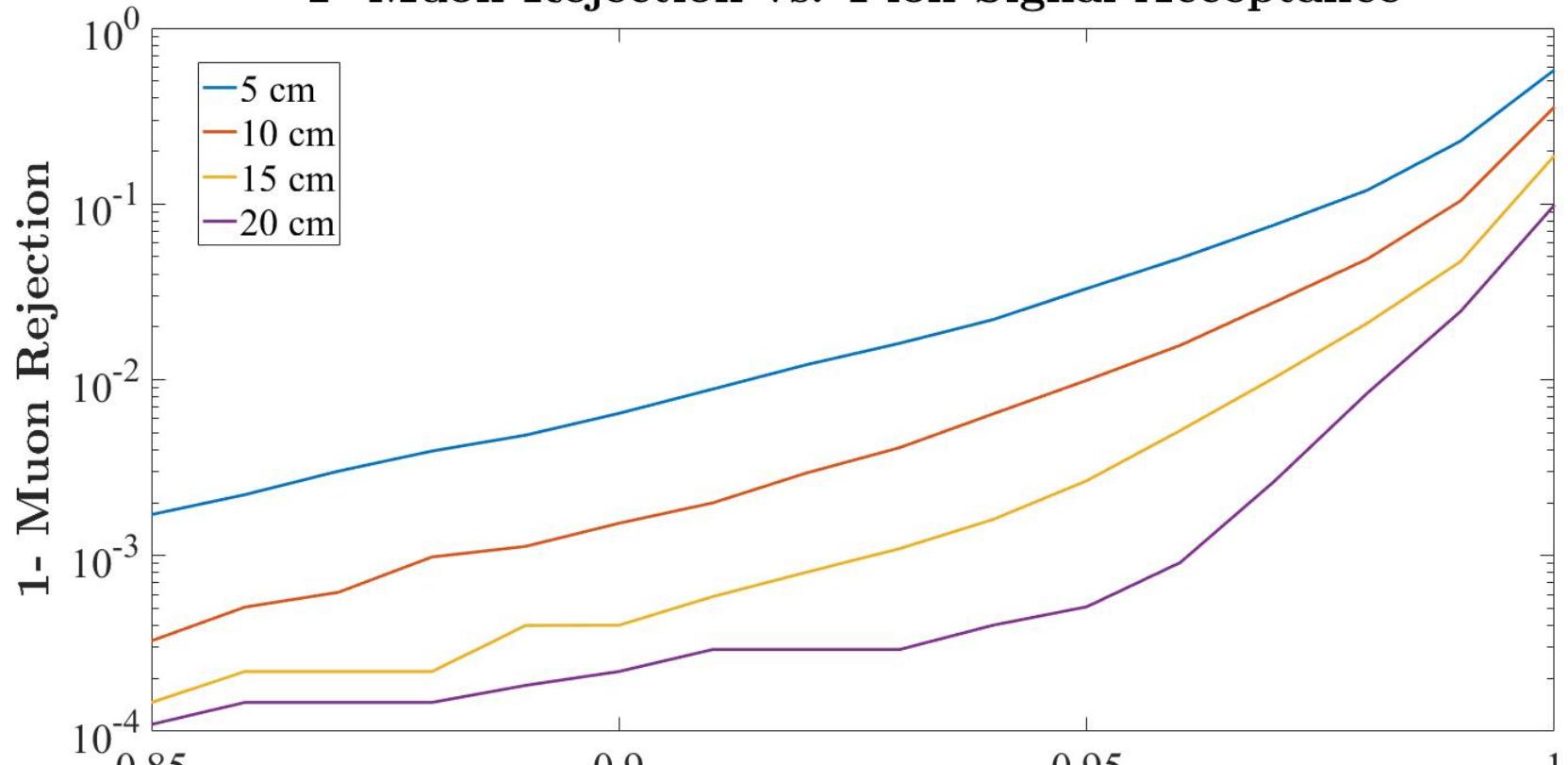
$.60^\circ < \theta_{\mu(\pi)} < 5.3^\circ$ , angle from target position to the inner opening  
of TOF to the outer edge of muon chambers

$\mu^+\mu^-$  Bethe-Heitler and  $\pi^+\pi^-$  Primakoff photo-production cross sections for 5.5 GeV photons on Pb



$$= \sqrt{E_\gamma^2 - \left| \vec{k}_1 + \vec{k}_2 \right|^2}$$

## 1- Muon Rejection vs. Pion Signal Acceptance



8 MWPCs

## 7 Fe absorbers varying between 5-20 cm

