

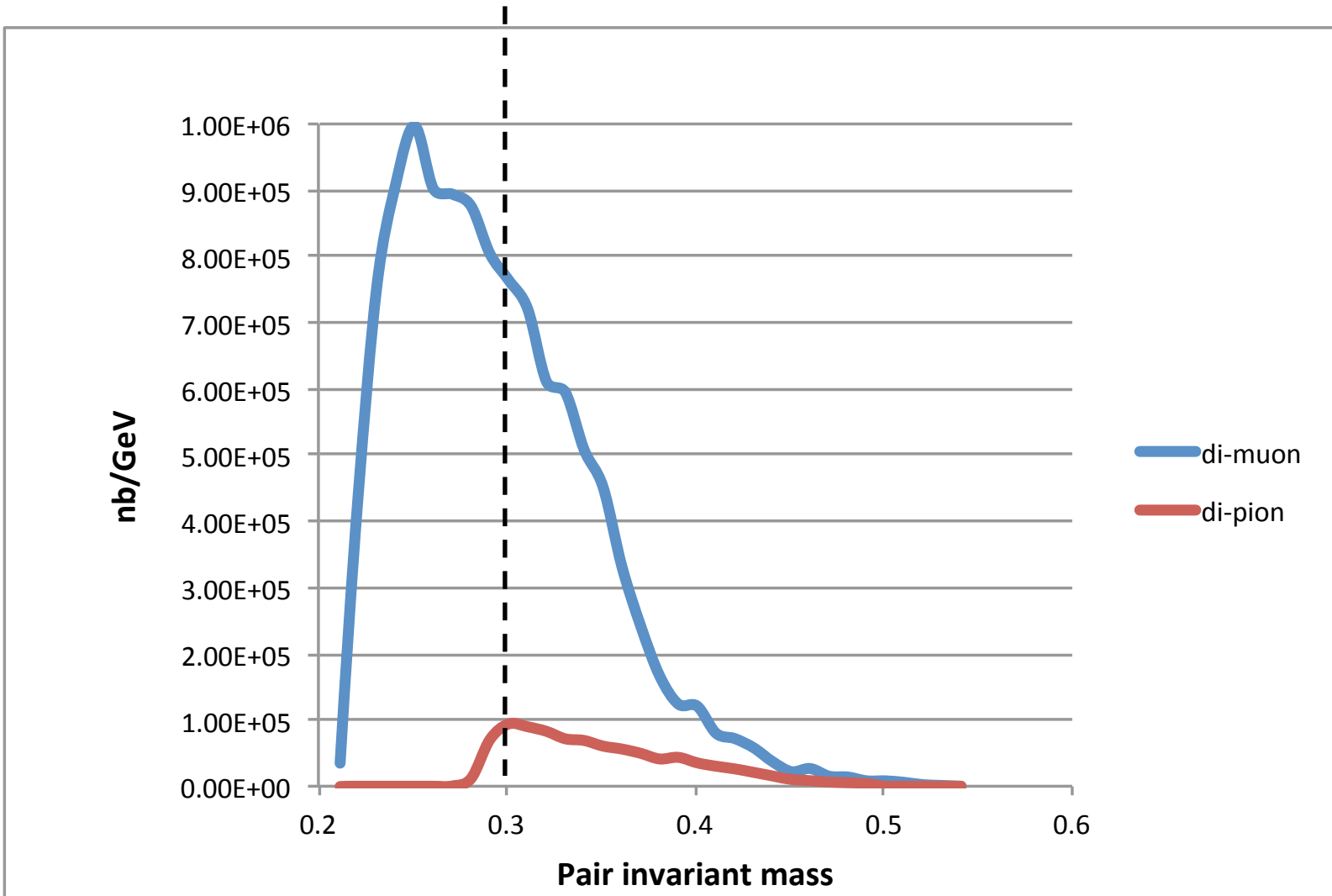
Integrate $\mu^+\mu^-$ Bethe-Heitler and $\pi^+\pi^-$ Primakoff cross sections for:

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

$$Z=82$$

$.60^\circ < \theta_{\mu(\pi)} < 5.3^\circ$, 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



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

