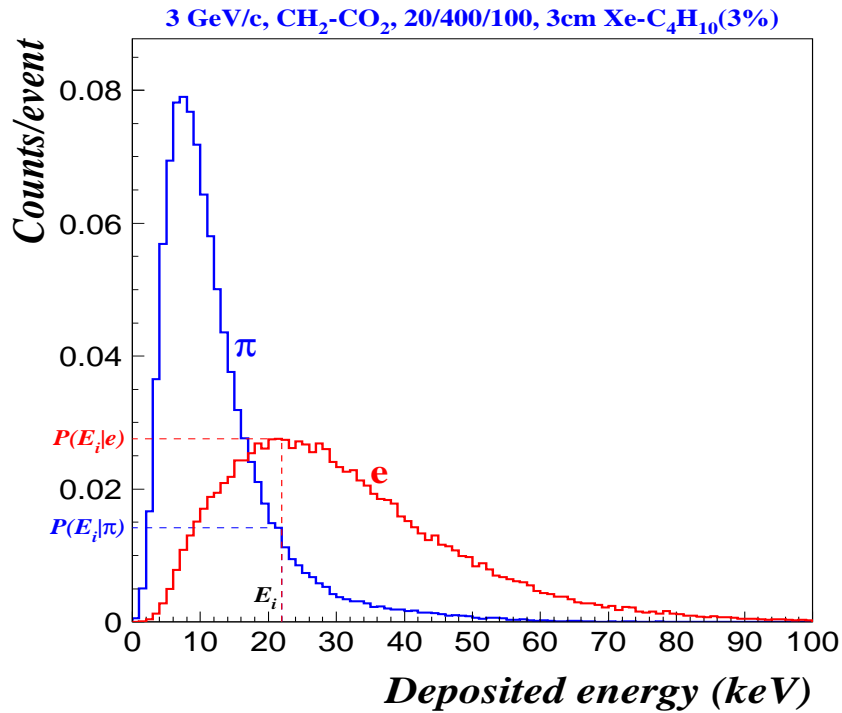


# TRD – Likelihood analysis method



$P(E_i|e)$  = Probability that the energy deposit  $E_i$  (in layer  $i$ ) was produced by an electron

$$\text{Likelihood} = \frac{P_e}{P_e + P_\pi}$$

(Likelihood-to-be-an-electron)

$$P_e = \prod_{i=1}^N P(E_i|e)$$

$$P_\pi = \prod_{i=1}^N P(E_i|\pi)$$

N = number of modules (N=6)

