Tau decay mode selection

first look at selection efficiency

selected by using invariant mass of $\gamma\gamma, \pi\gamma, \#photon$

$$\epsilon_{ij} = \frac{N_j}{\sum_j N_{ij}}$$

Selected 1-prong tau candidates in signal events

MC truth	unk	pi	rho	a11p	a13p	e	mu
pi	1.37	84.19	8.25	0.69	0.69	3.78	1.03
rho	4.36	2.52	67.45	16.11	1.01	8.22	0.34
a11p	5.45	1.82	23.18	55.91	0.91	10.00	2.73
a13p	29.78	2.67	8.44	3.56	55.56	0.00	0.00
e	1.20	0.24	0.96	0.24	0.24	96.17	0.96
mu	0.24	1.42	0.00	0.00	0.00	0.47	97.87
other	25.84	0.56	23.60	19.66	26.40	3.93	0.00

j →

reconstructed tau decay mode

electron and muon selection are good! : using IsolatedLeptonTagging

other decay mode : improvement is needed…