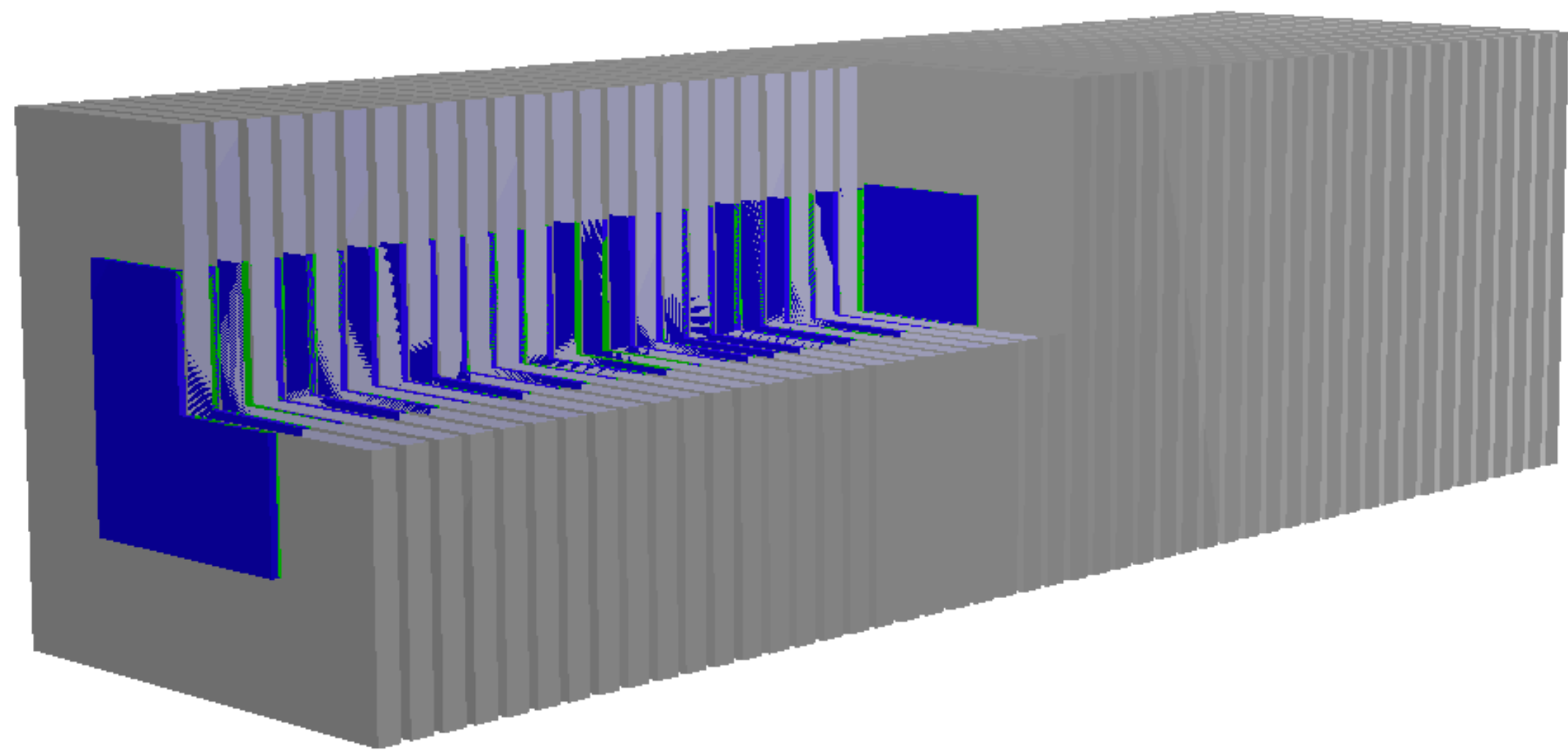


Statistical analysis of nu_tau CC and nu NC

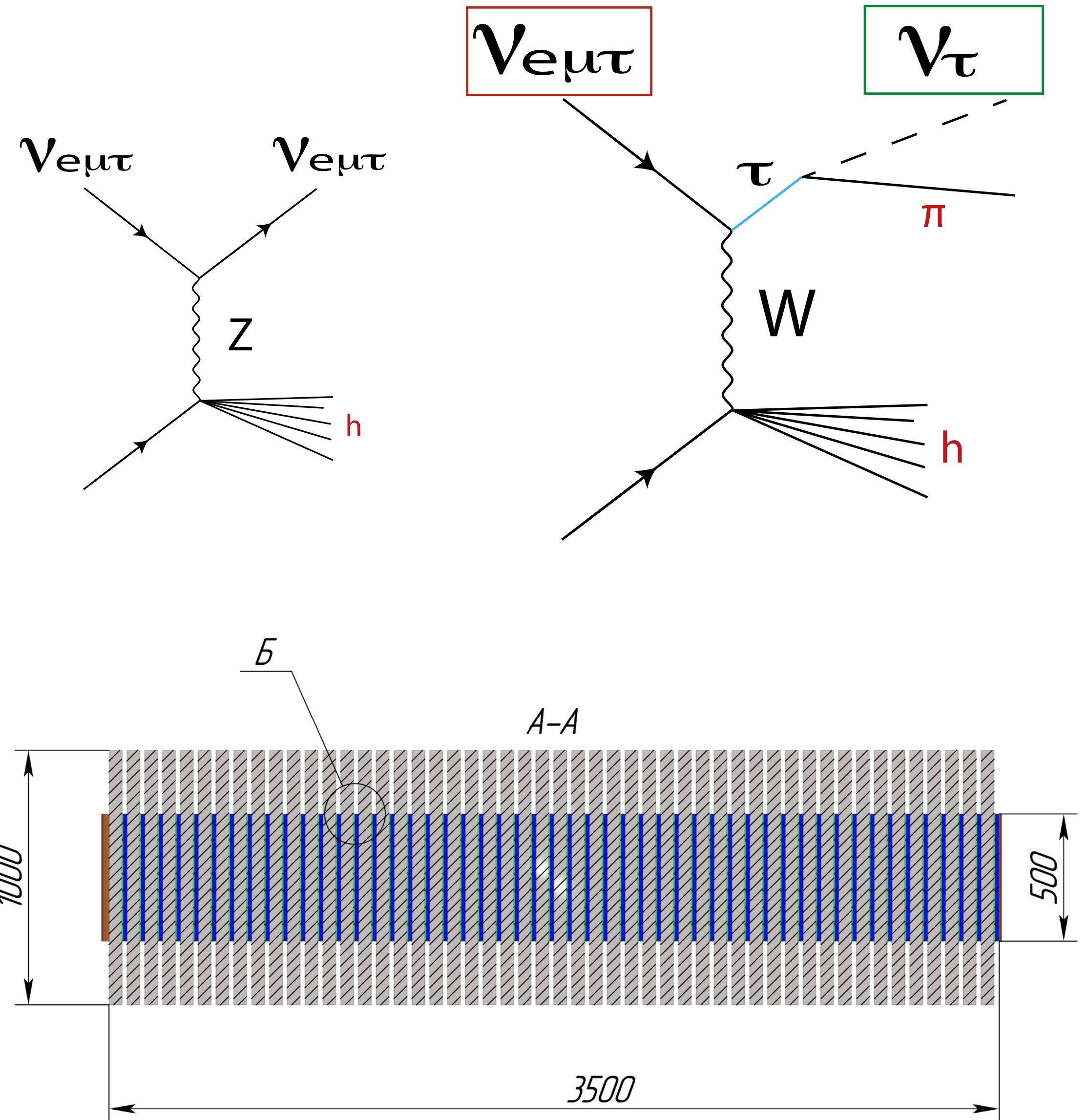
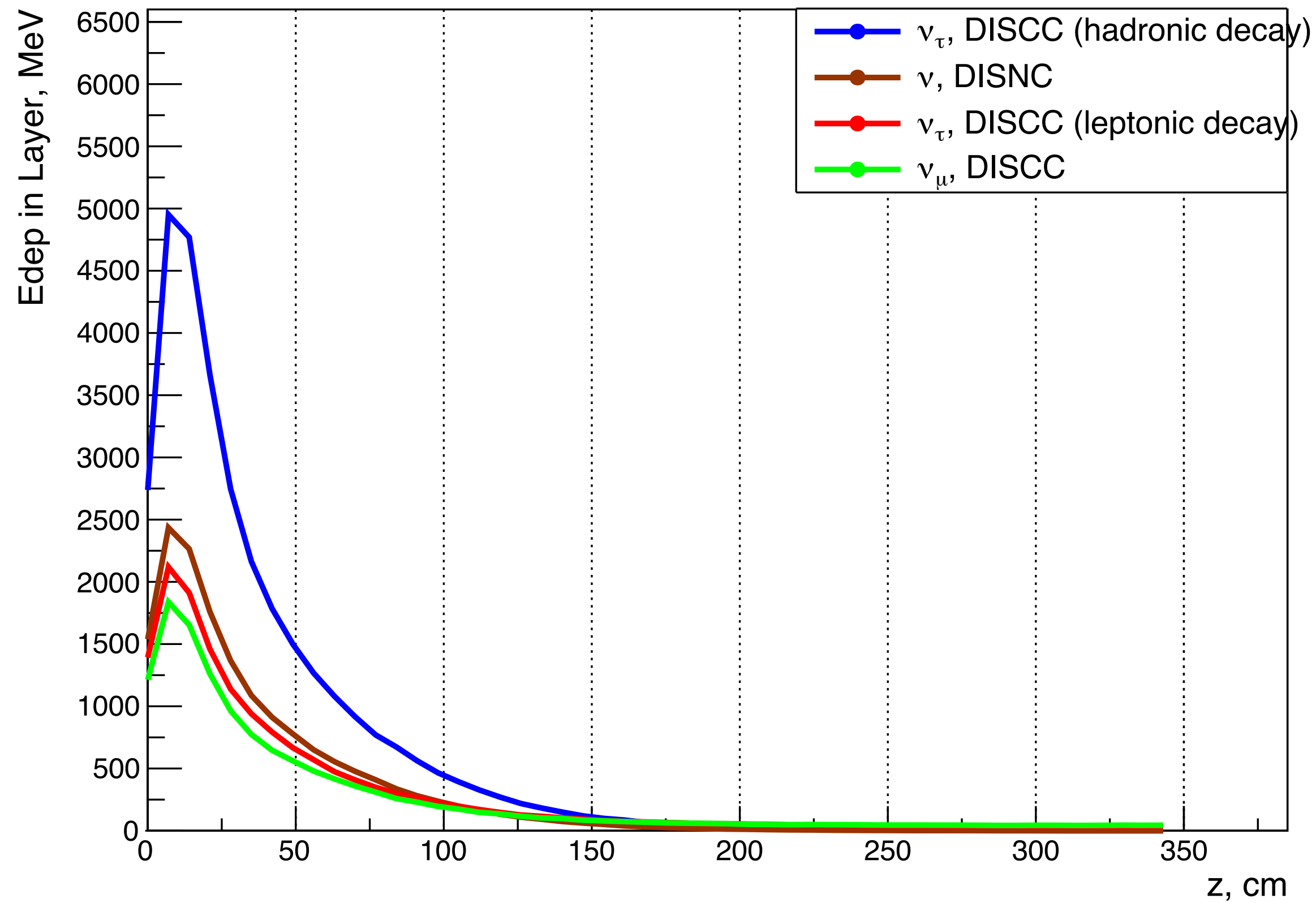
using detector response information

Vasilisa Guliaeva



Longitudinal shower profile for nu_tau CC & nu NC

Energy deposit, 50 layers: Absorber(Fe, 5. cm) x SciFi (Poly, 0.5 cm) x Sci (Poly, 1.5 cm)



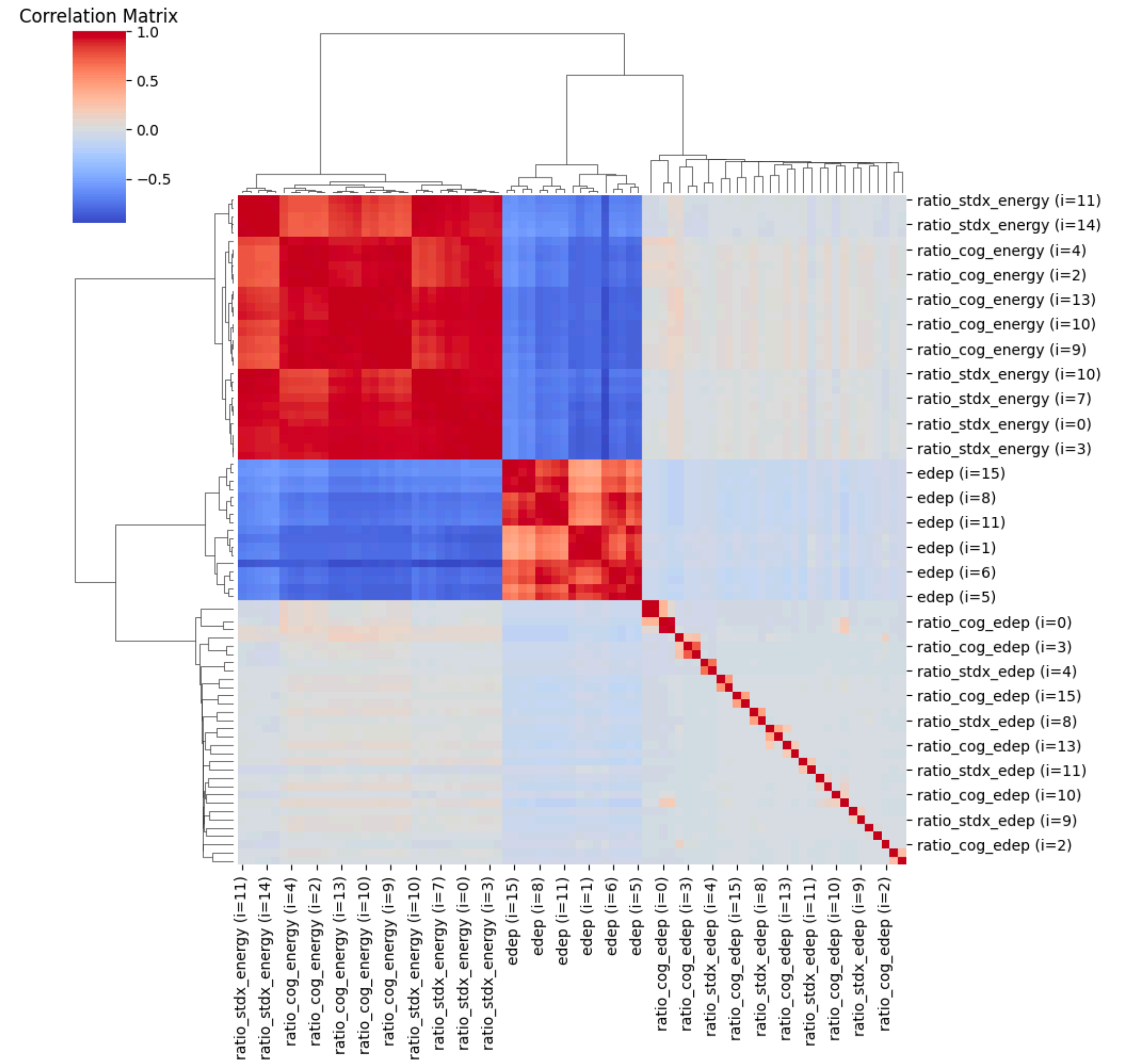
Charged current (tau hadronic decay):

Hadrons from tau more energetic.

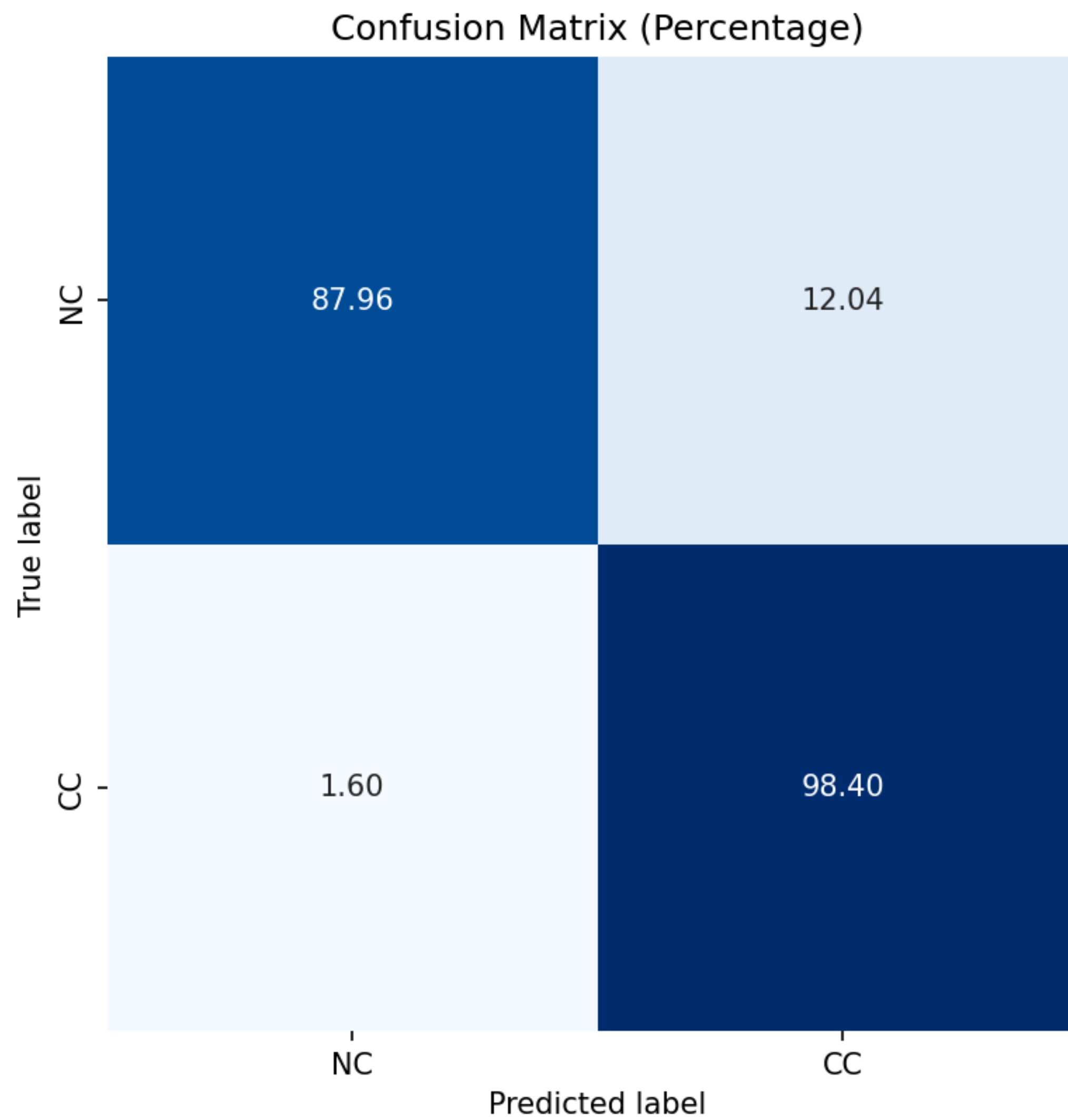
Neutral current and CC (tau leptonic decay):

Hadrons initiated by W or Z0 have a same energy.

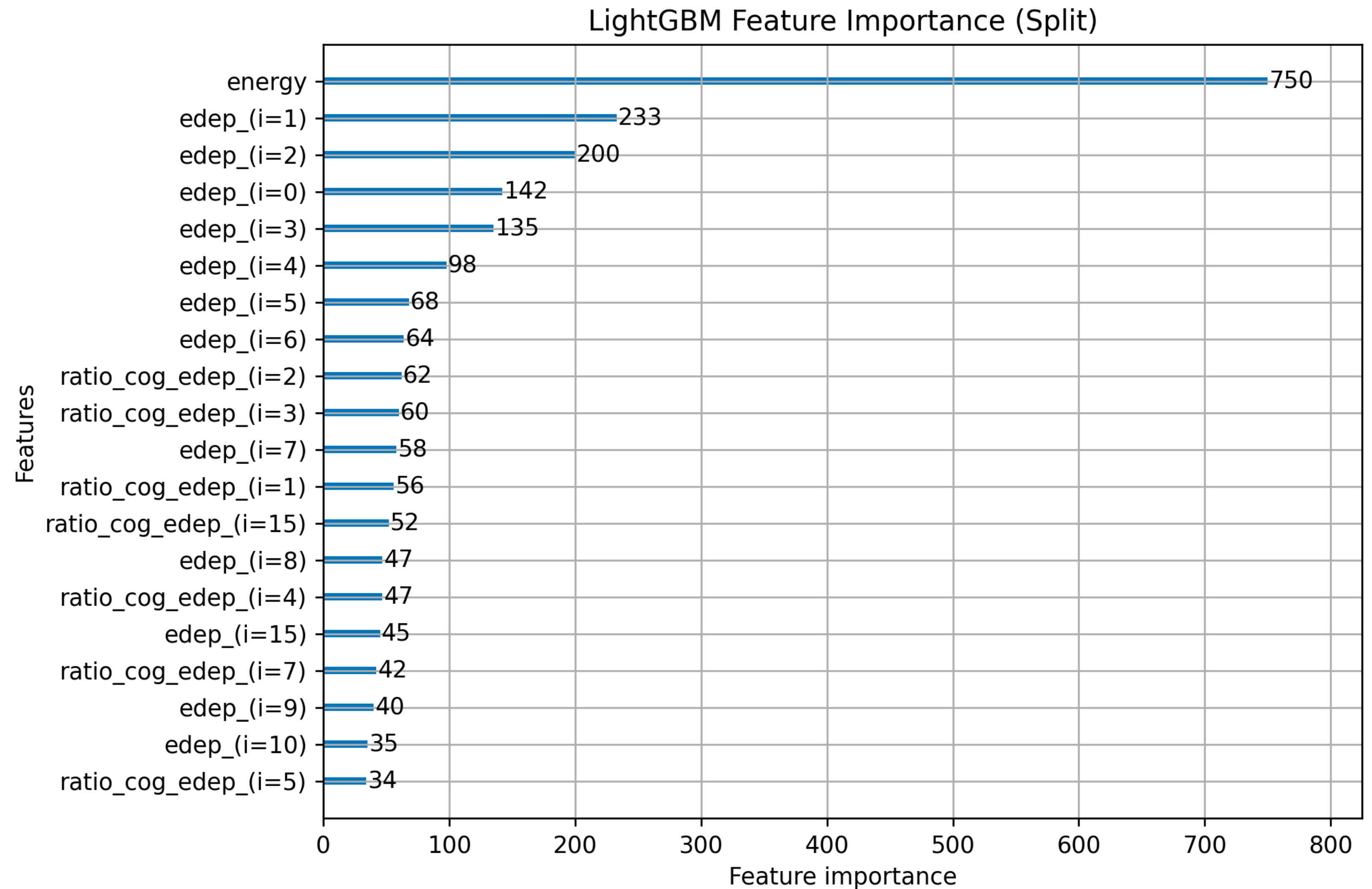
81 parameter

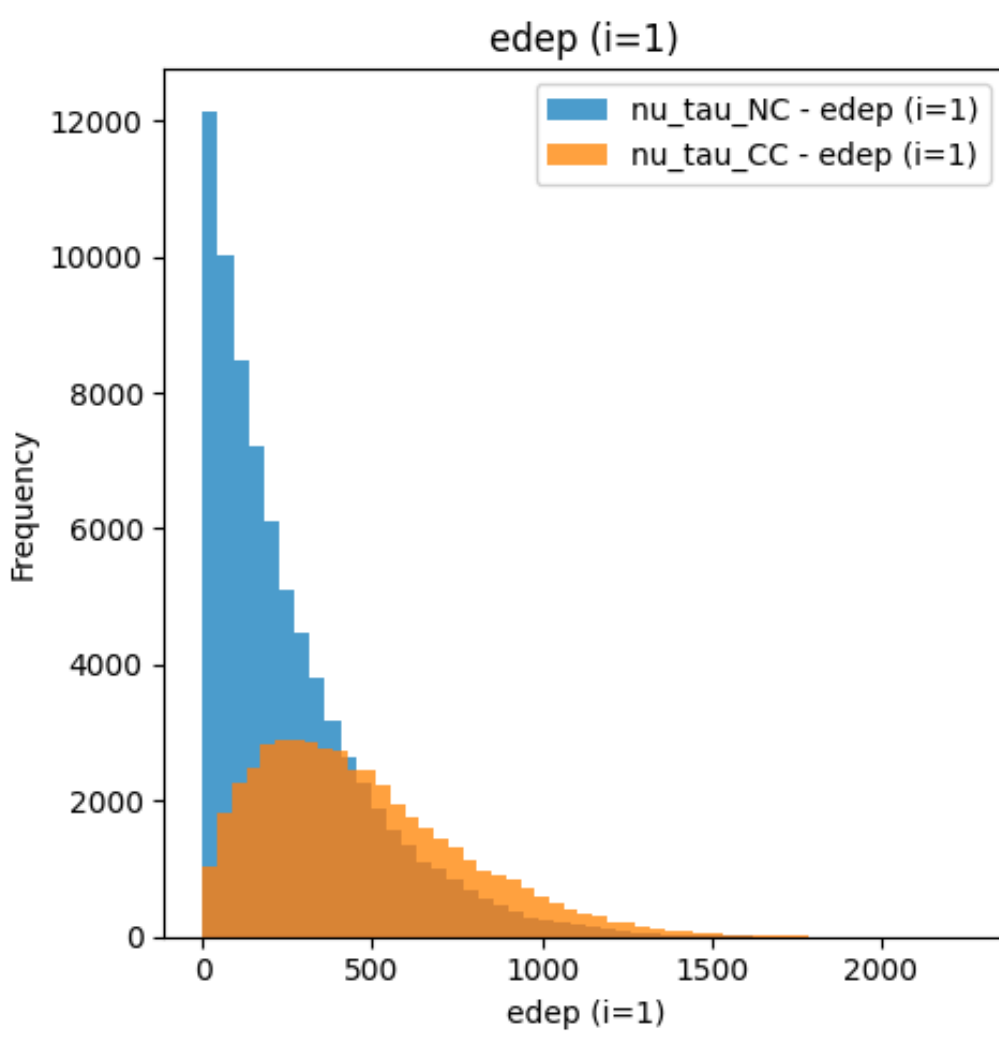
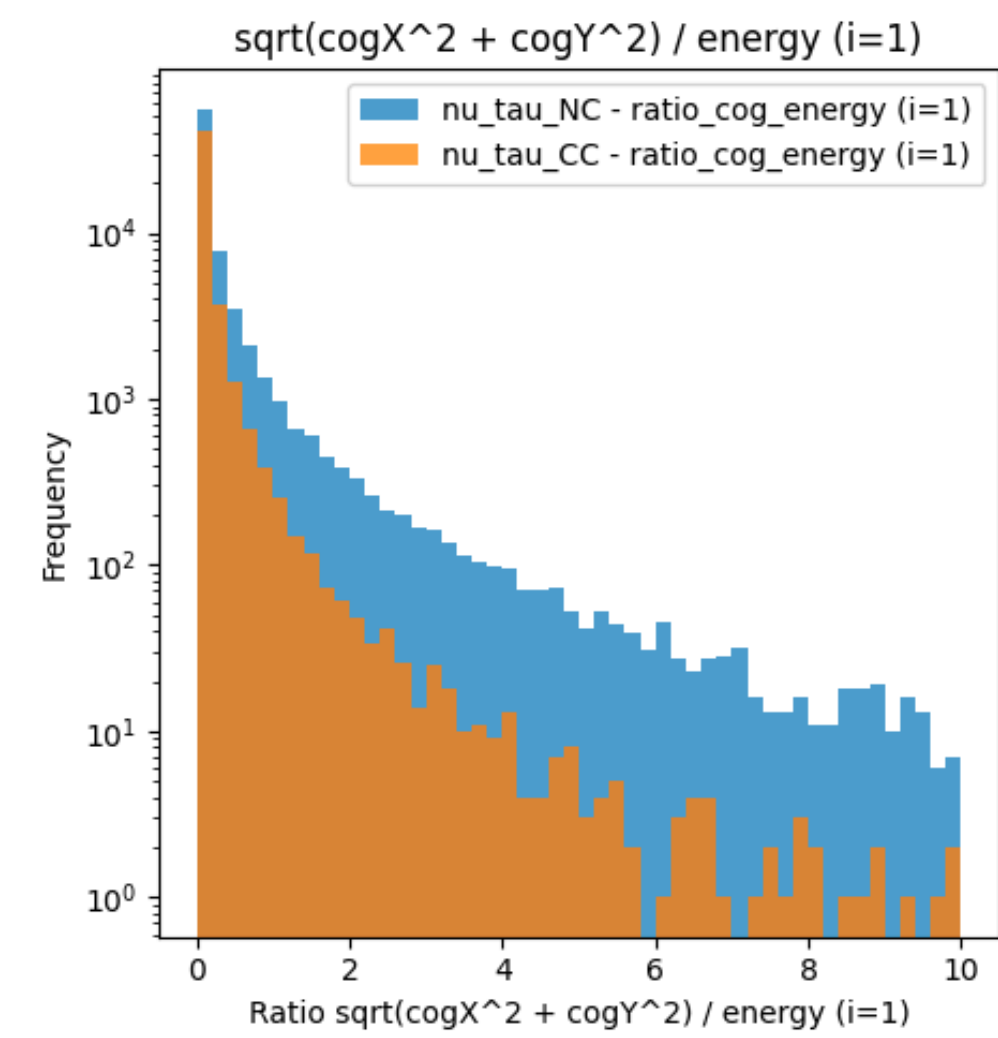
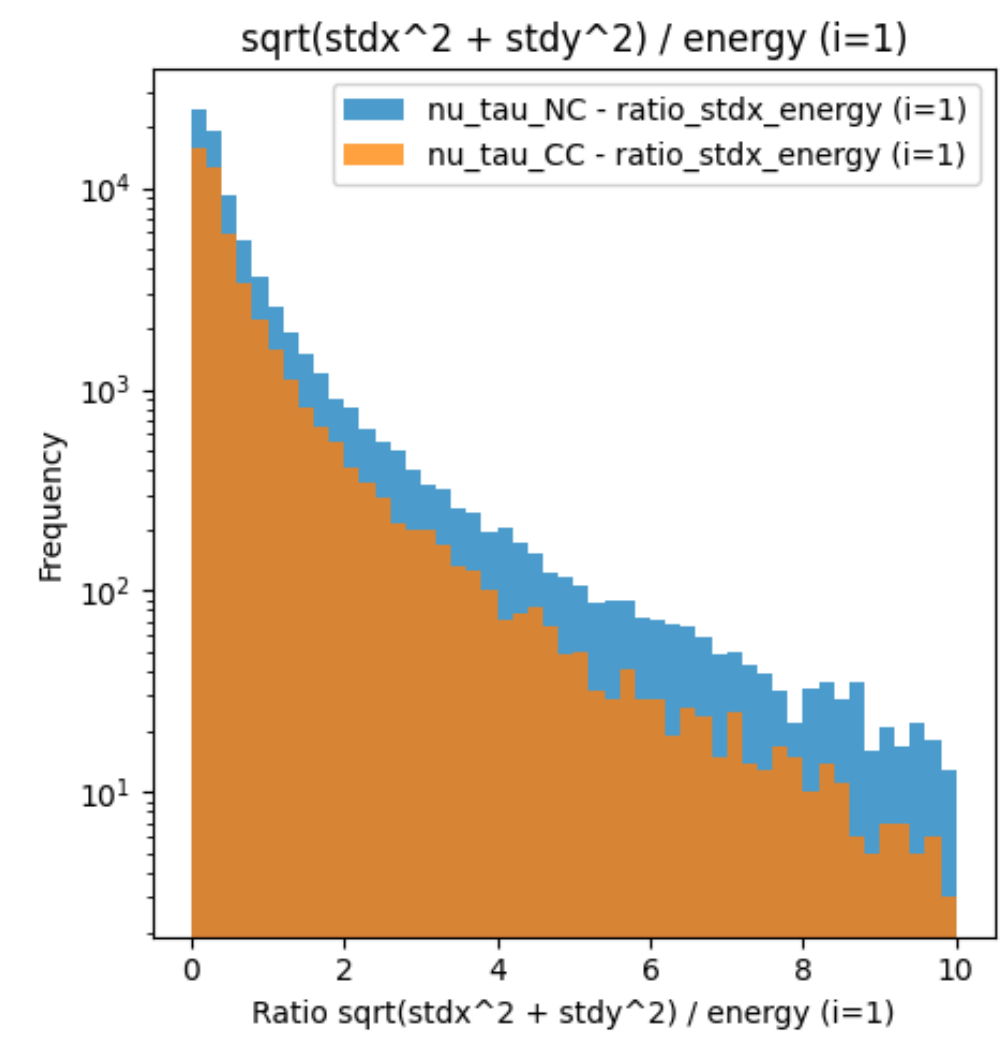
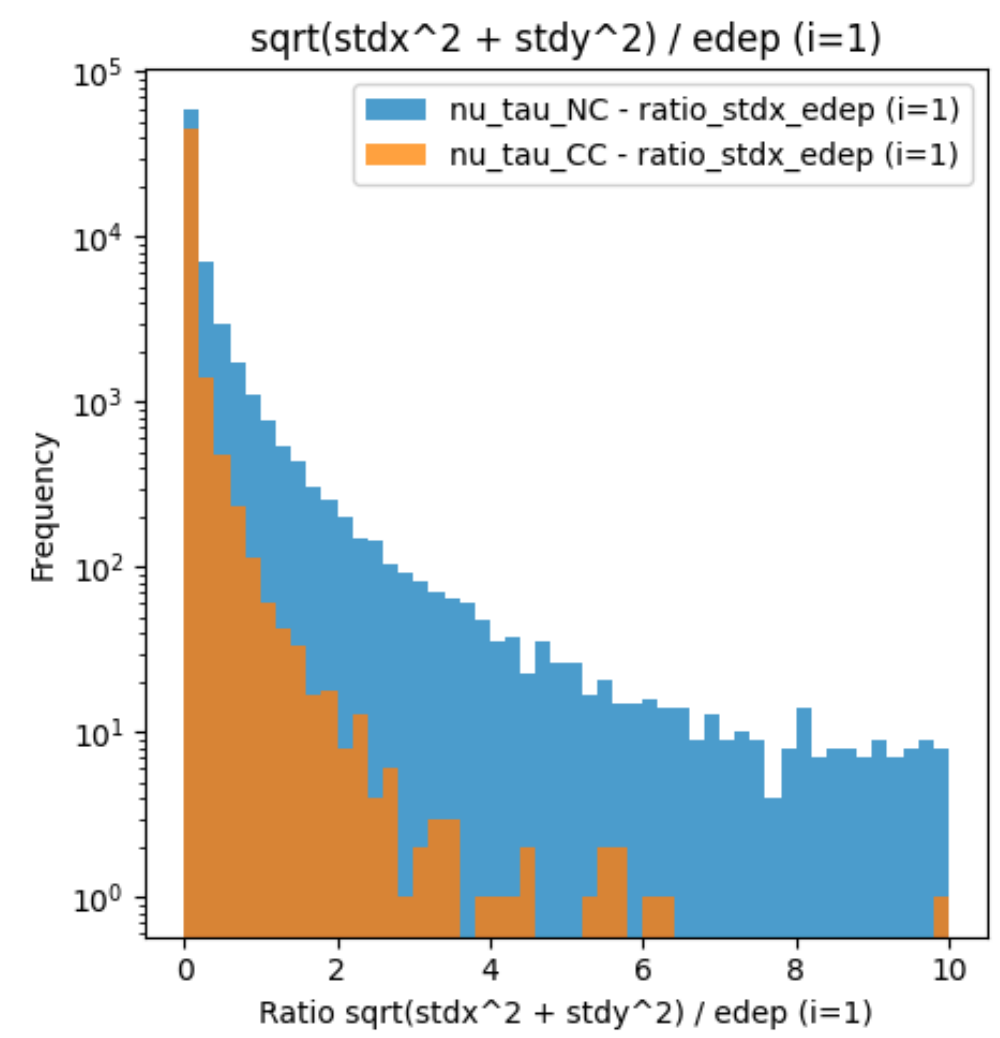
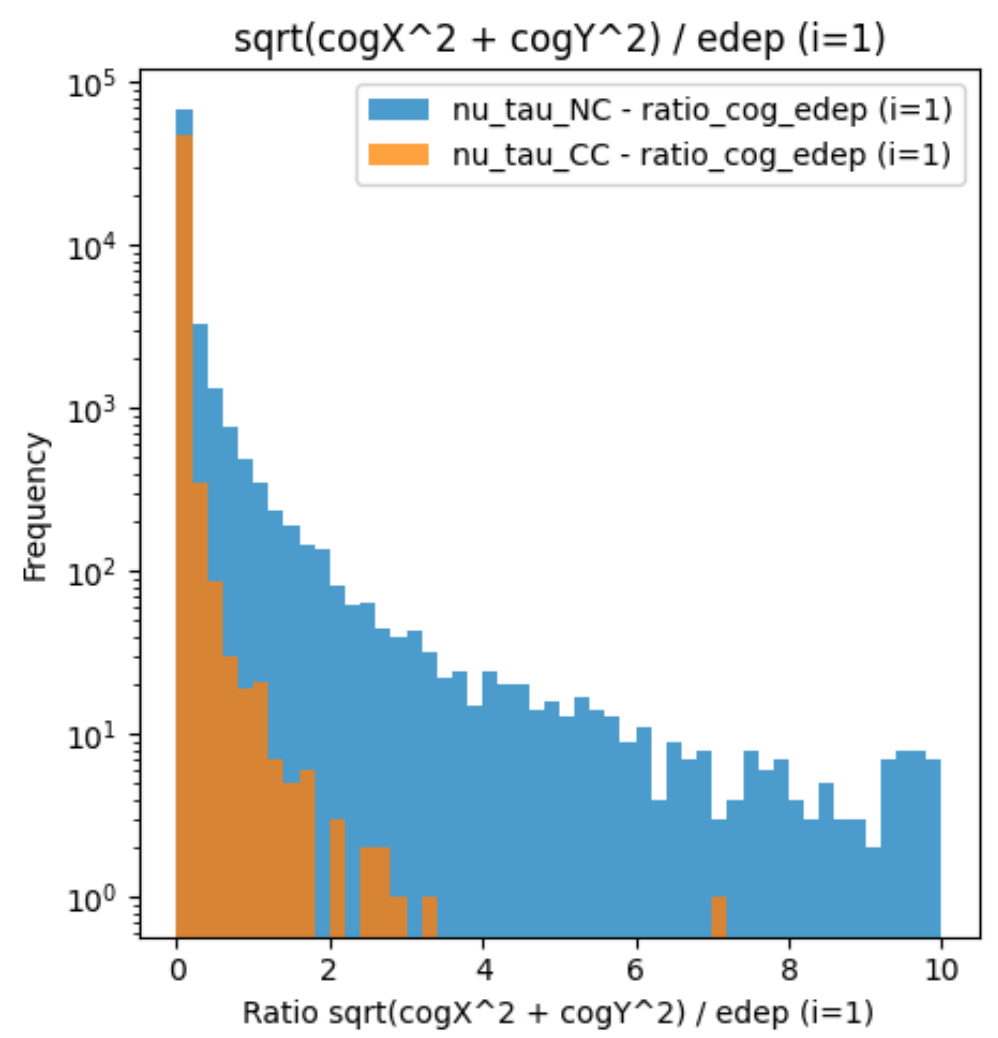
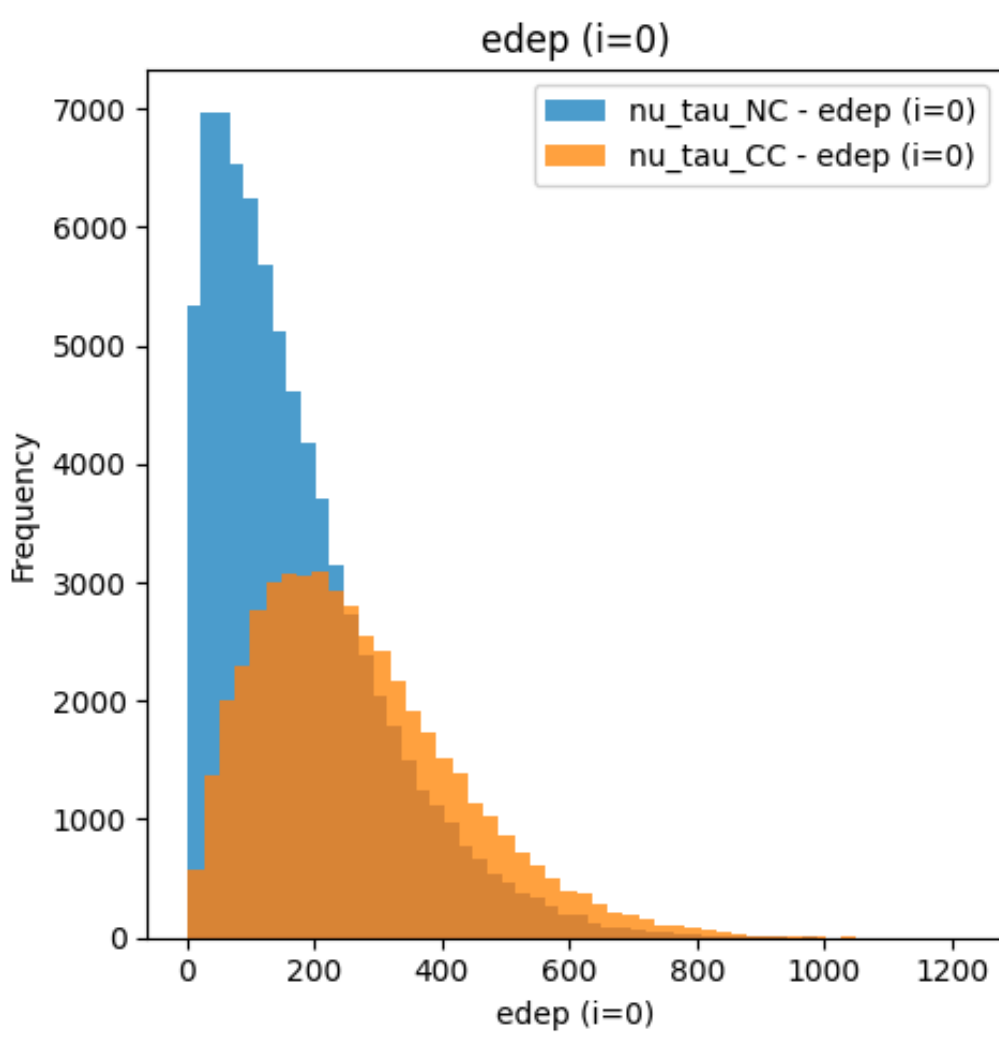
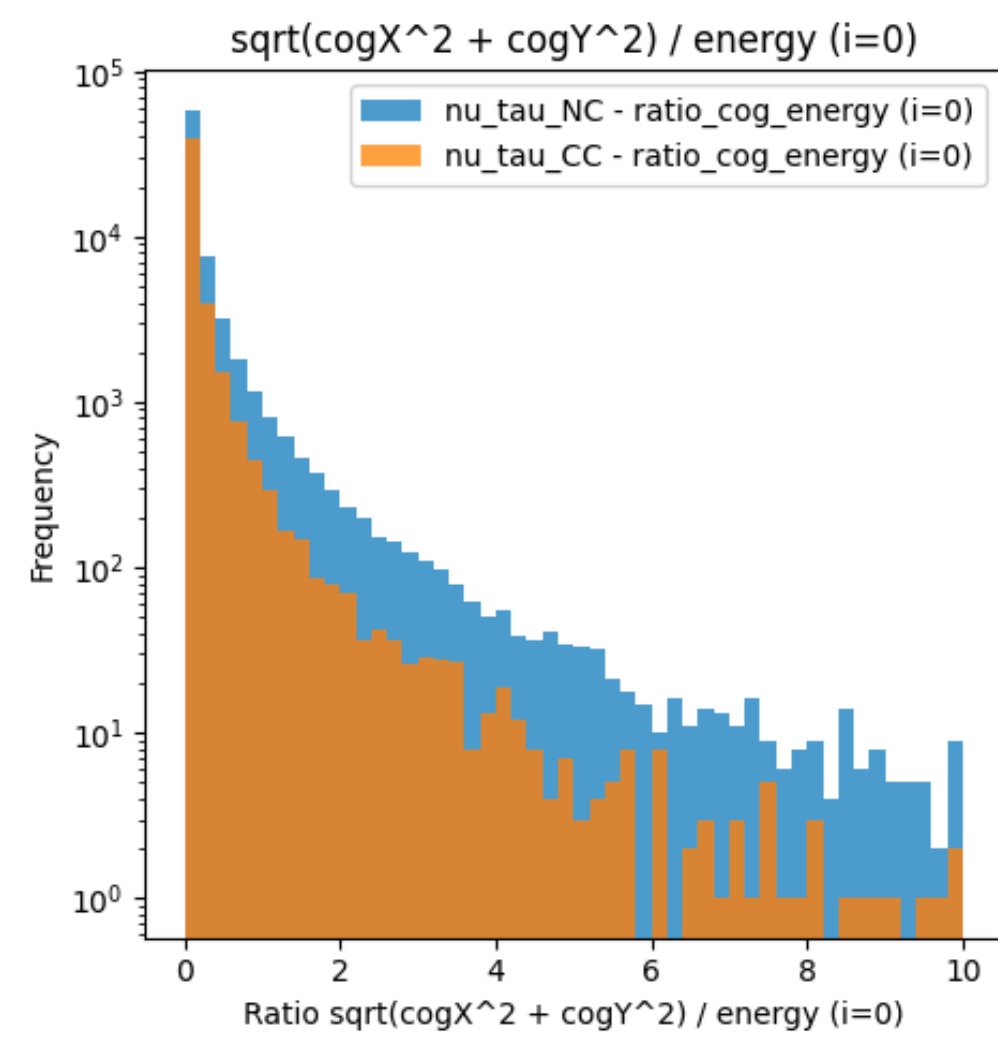
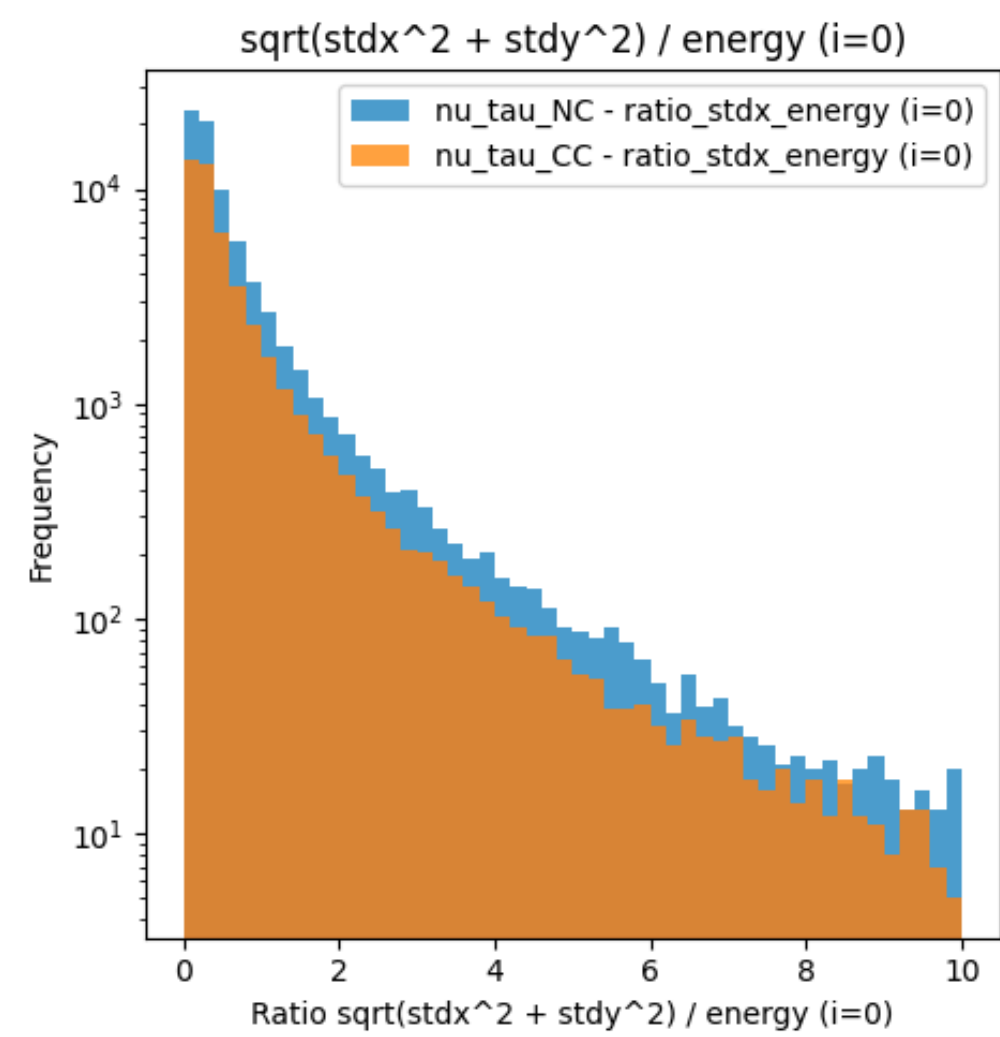
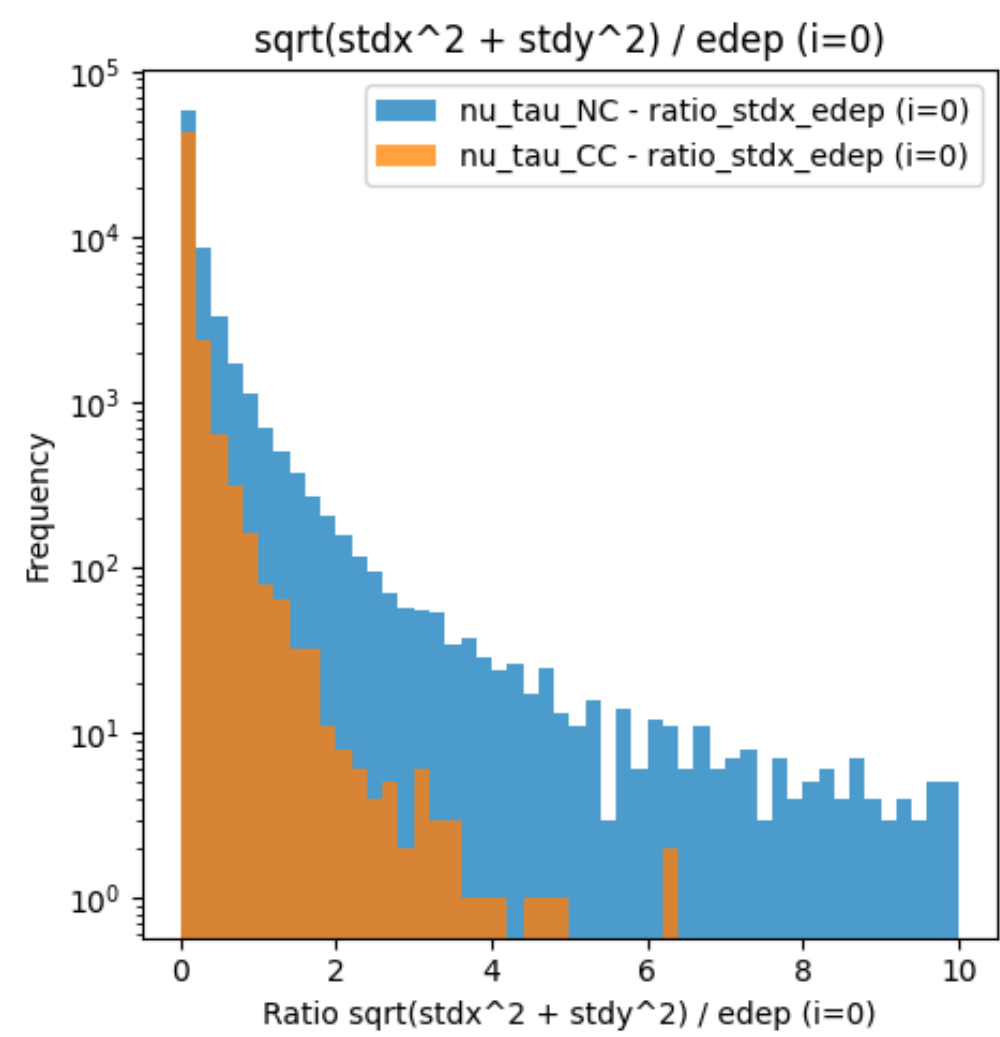
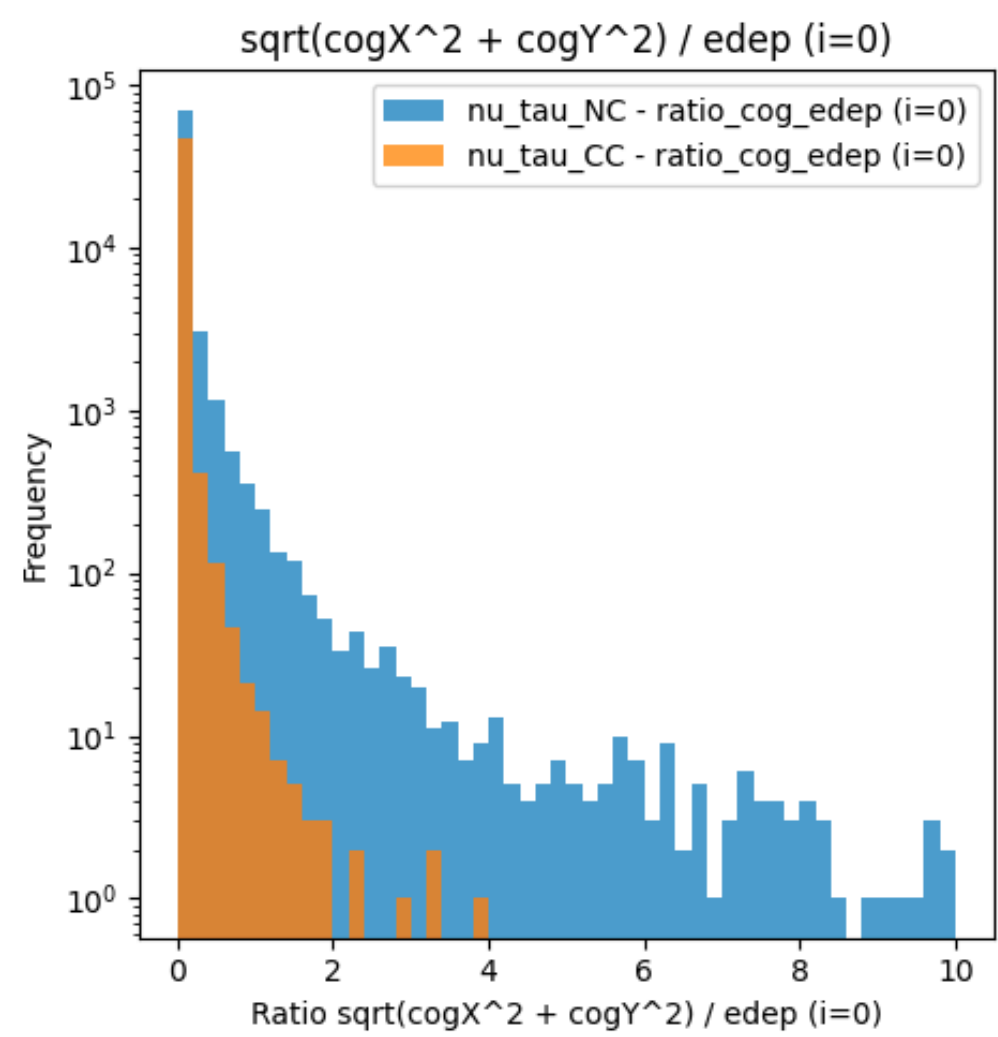


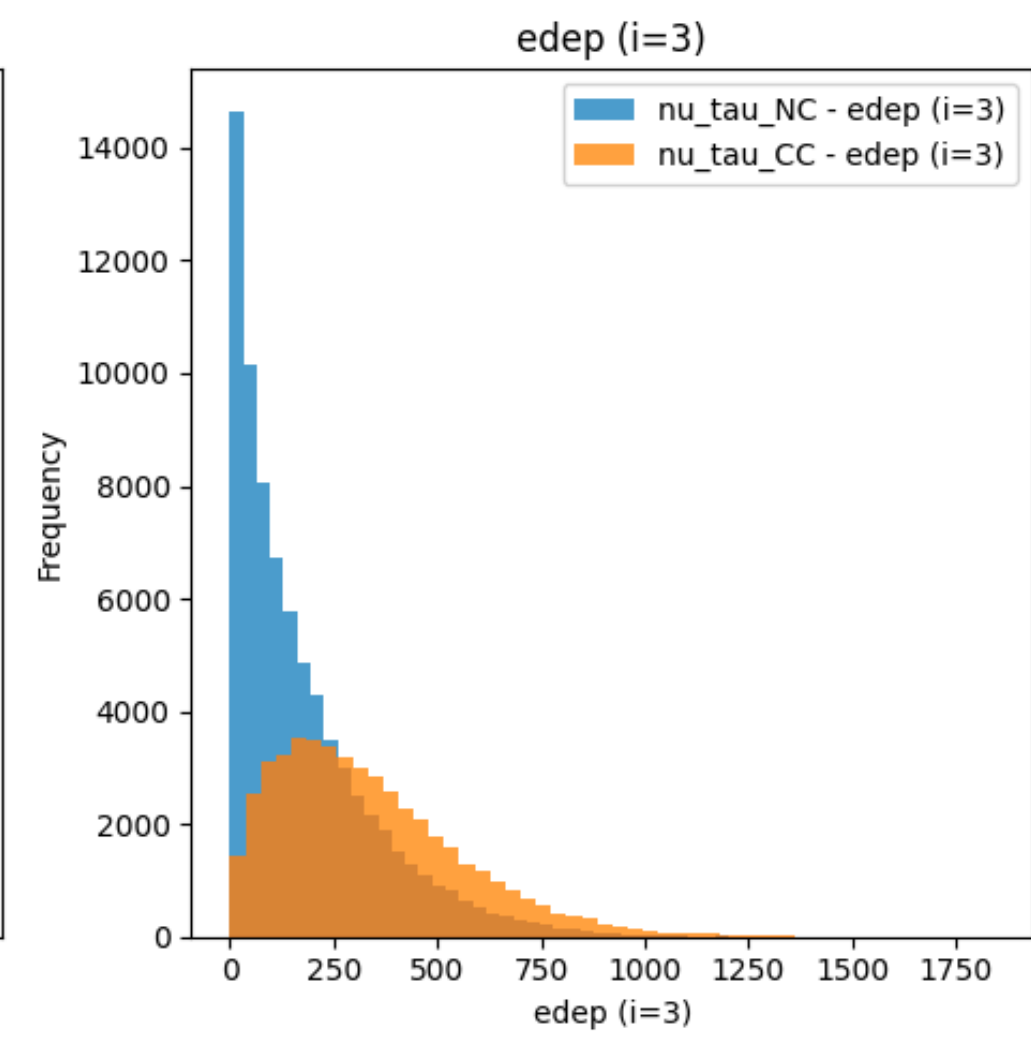
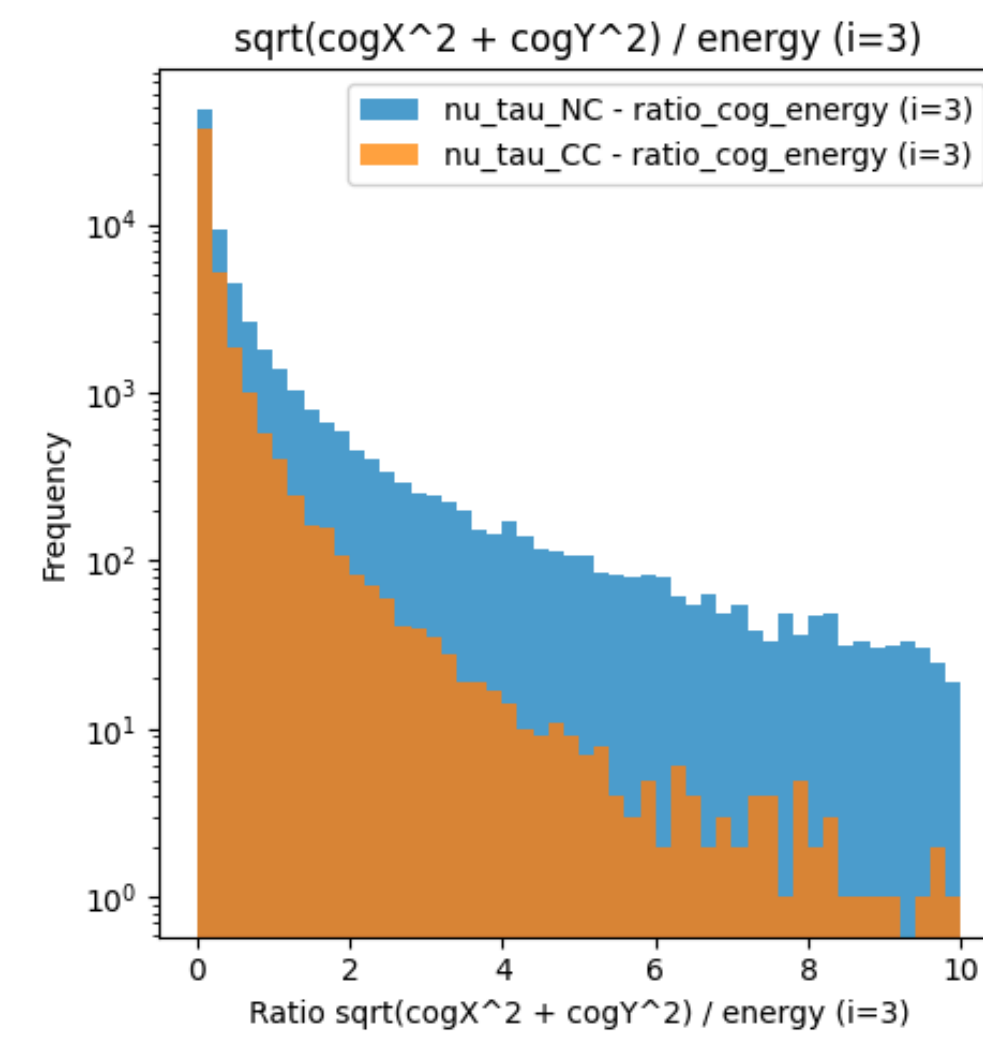
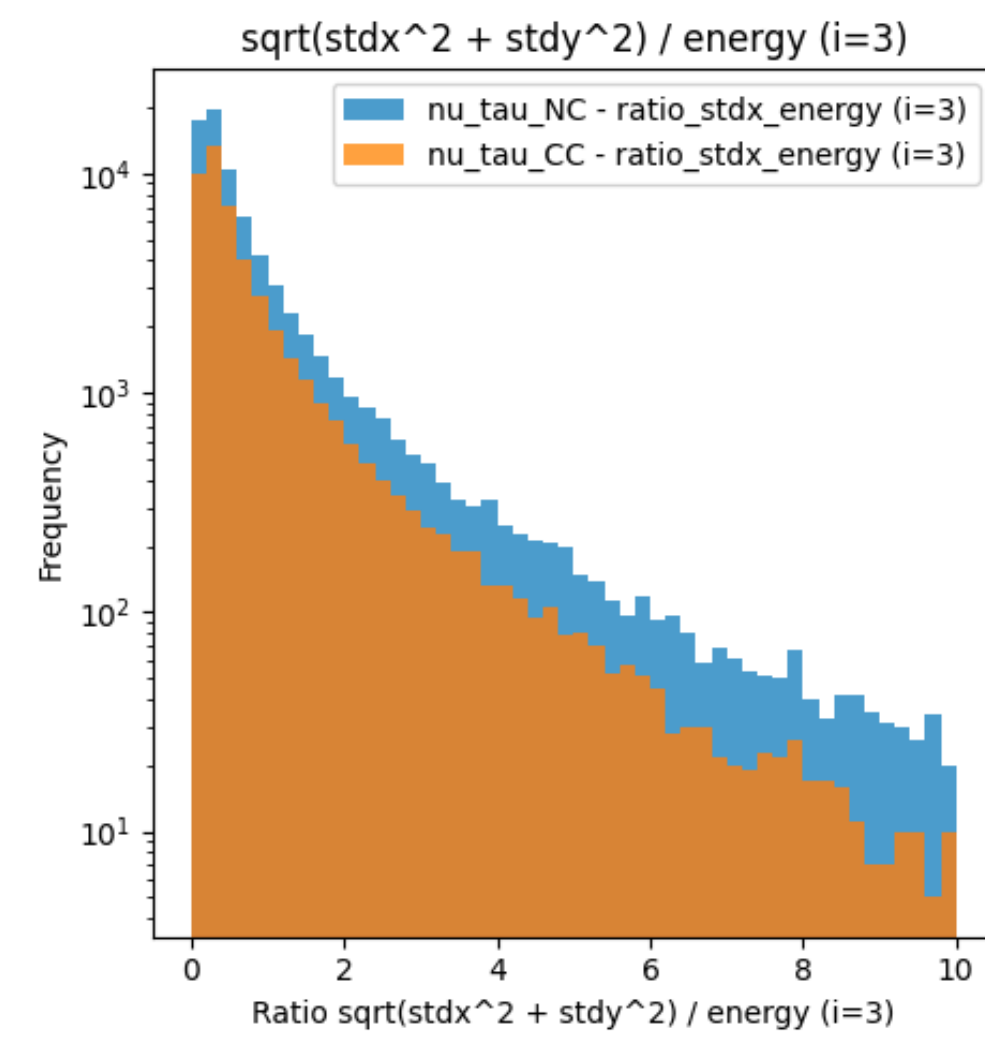
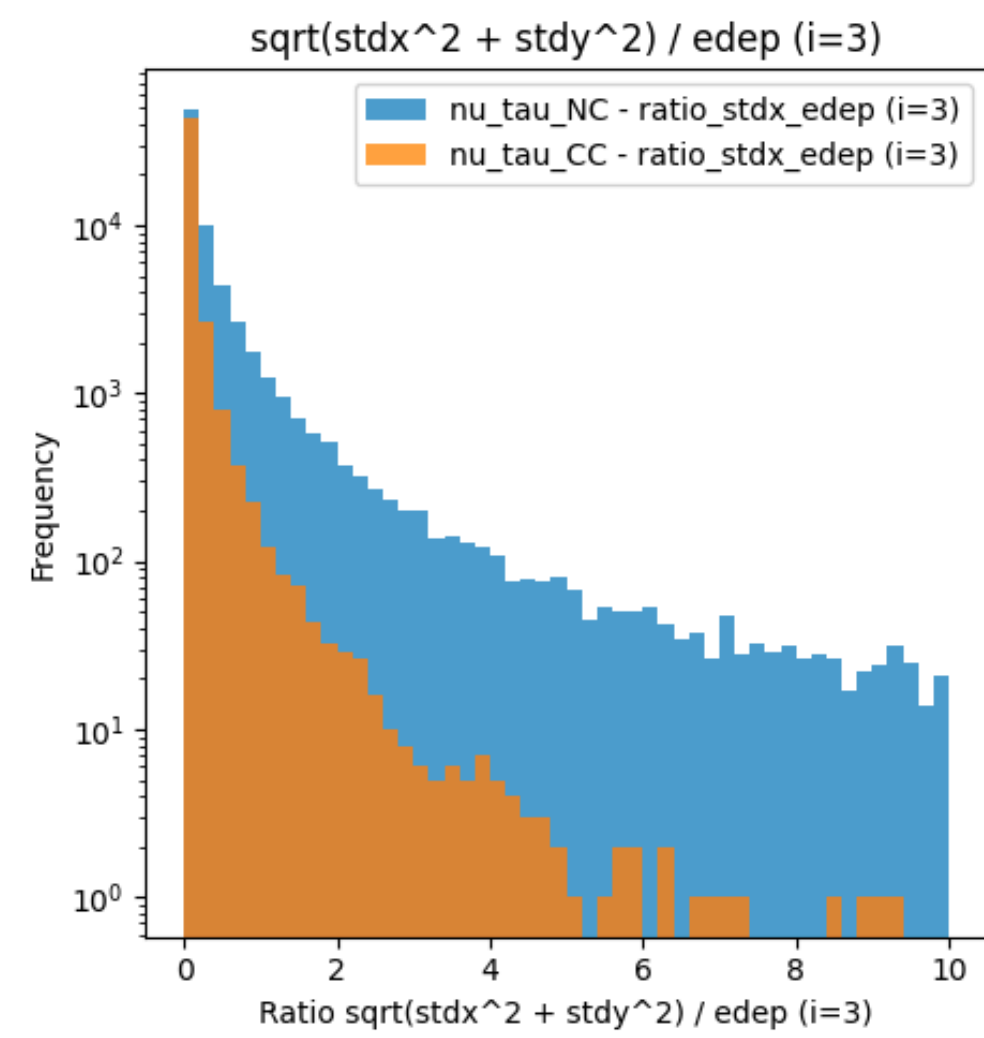
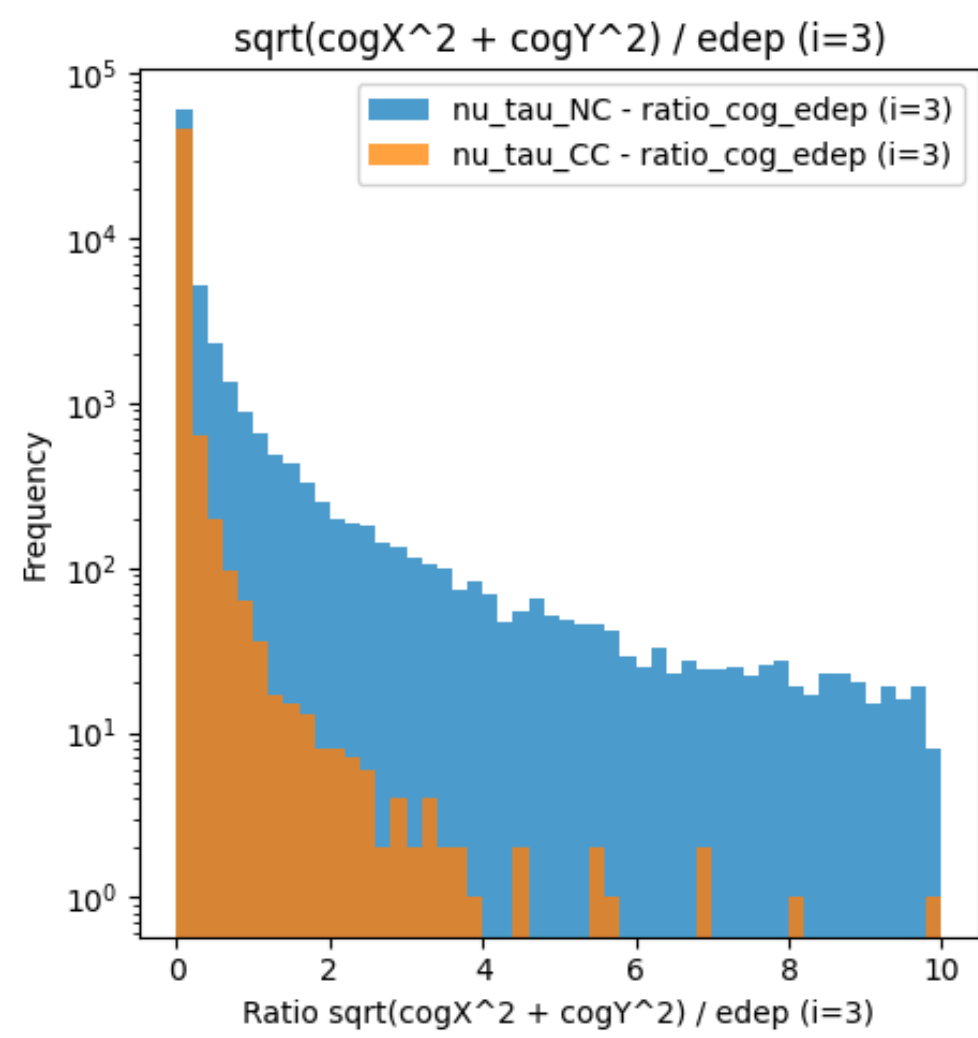
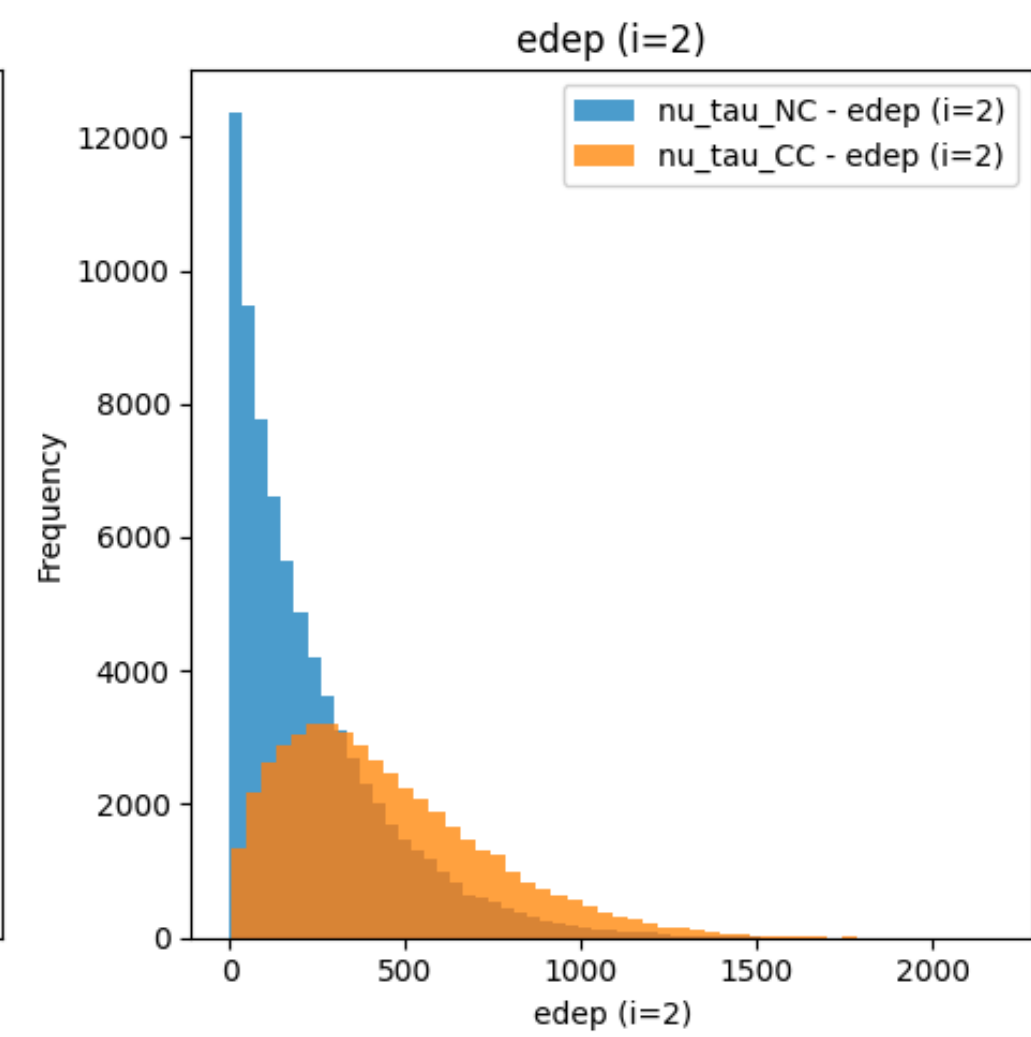
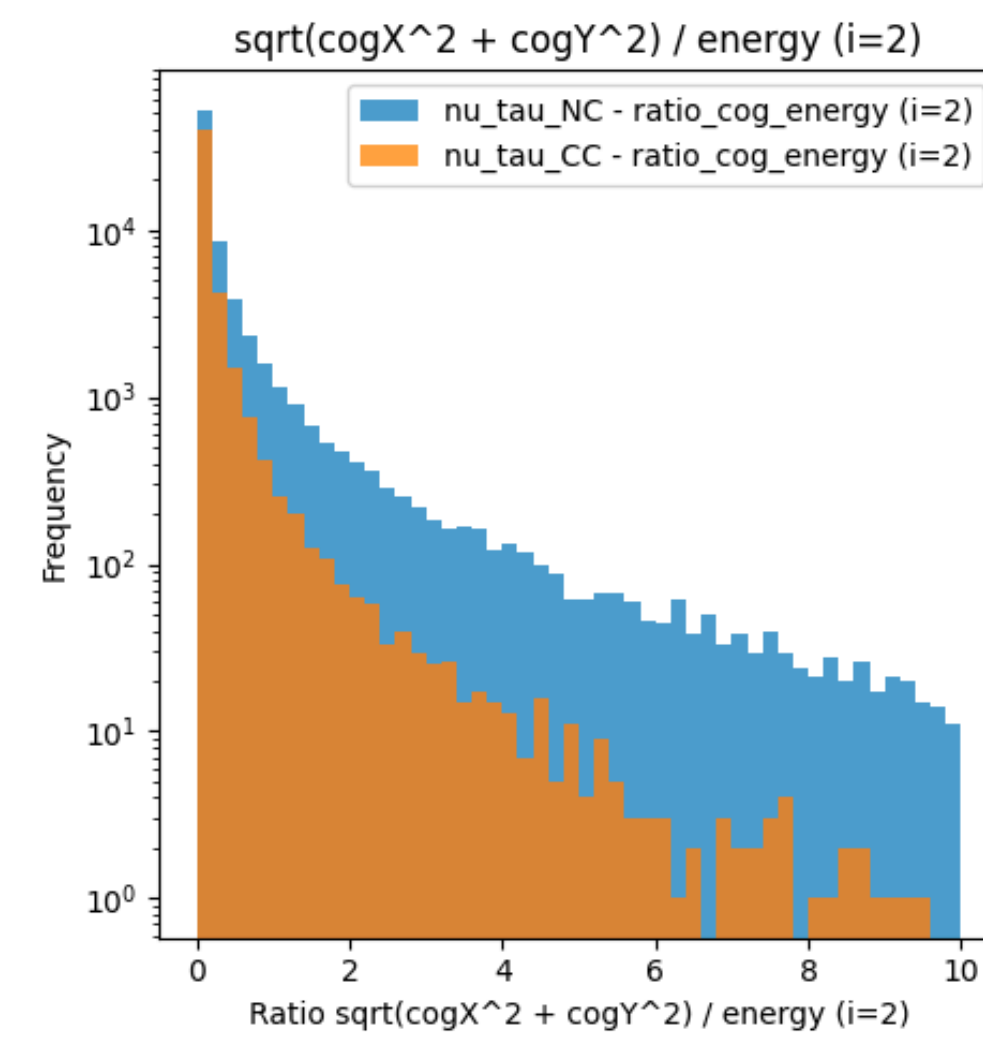
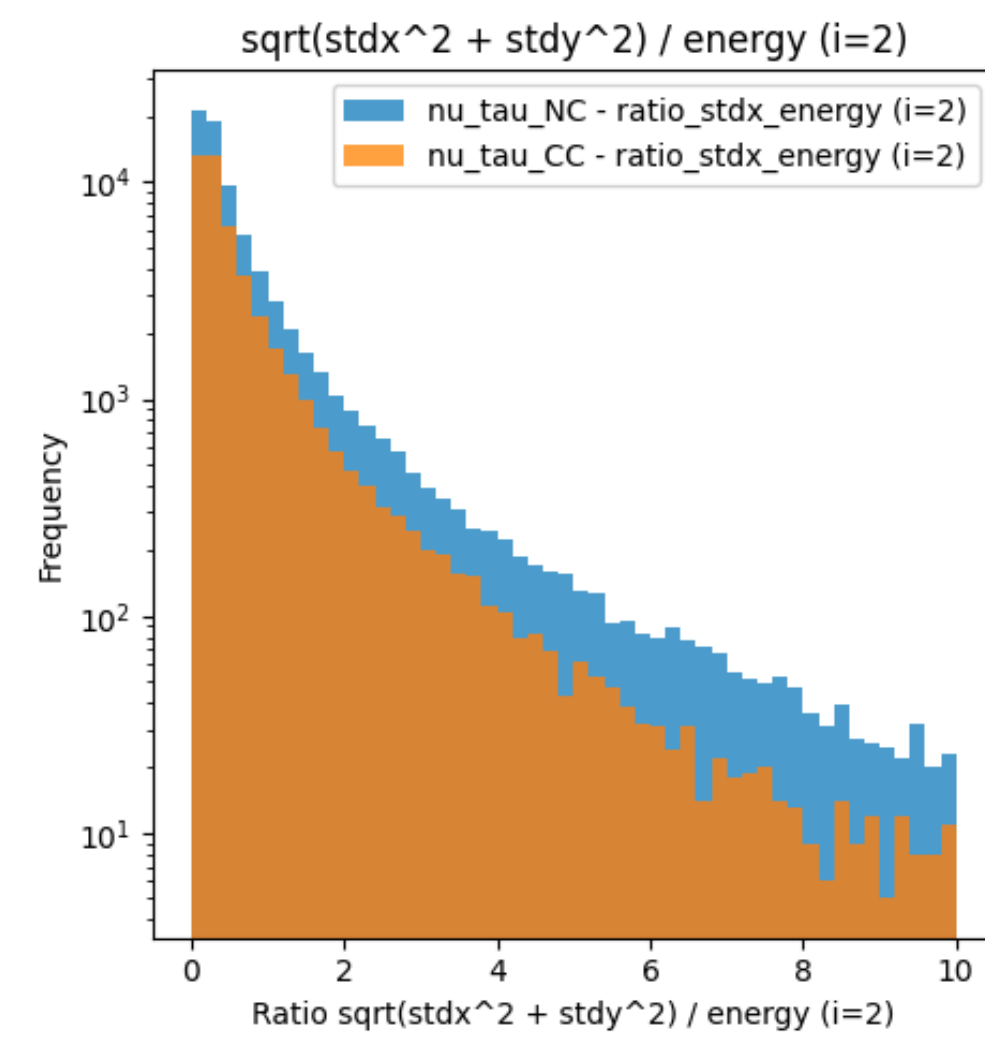
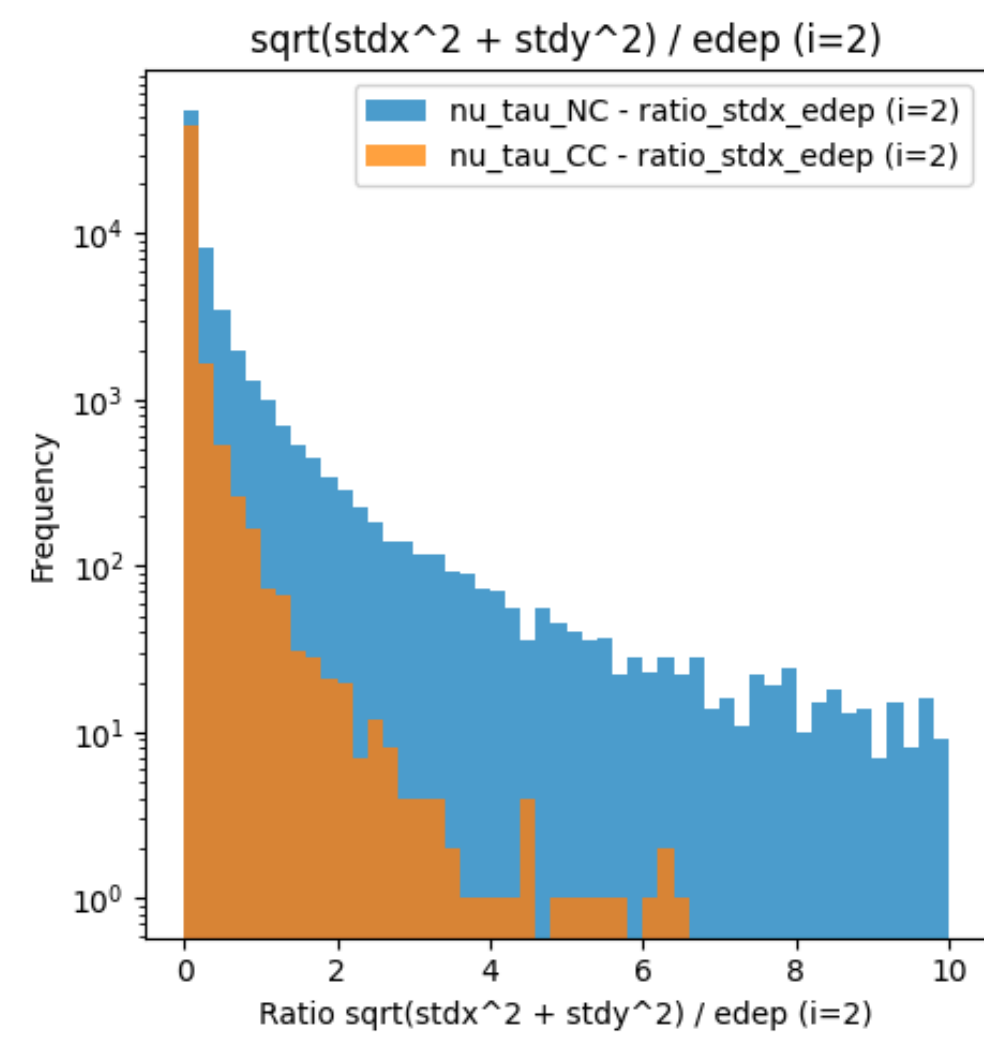
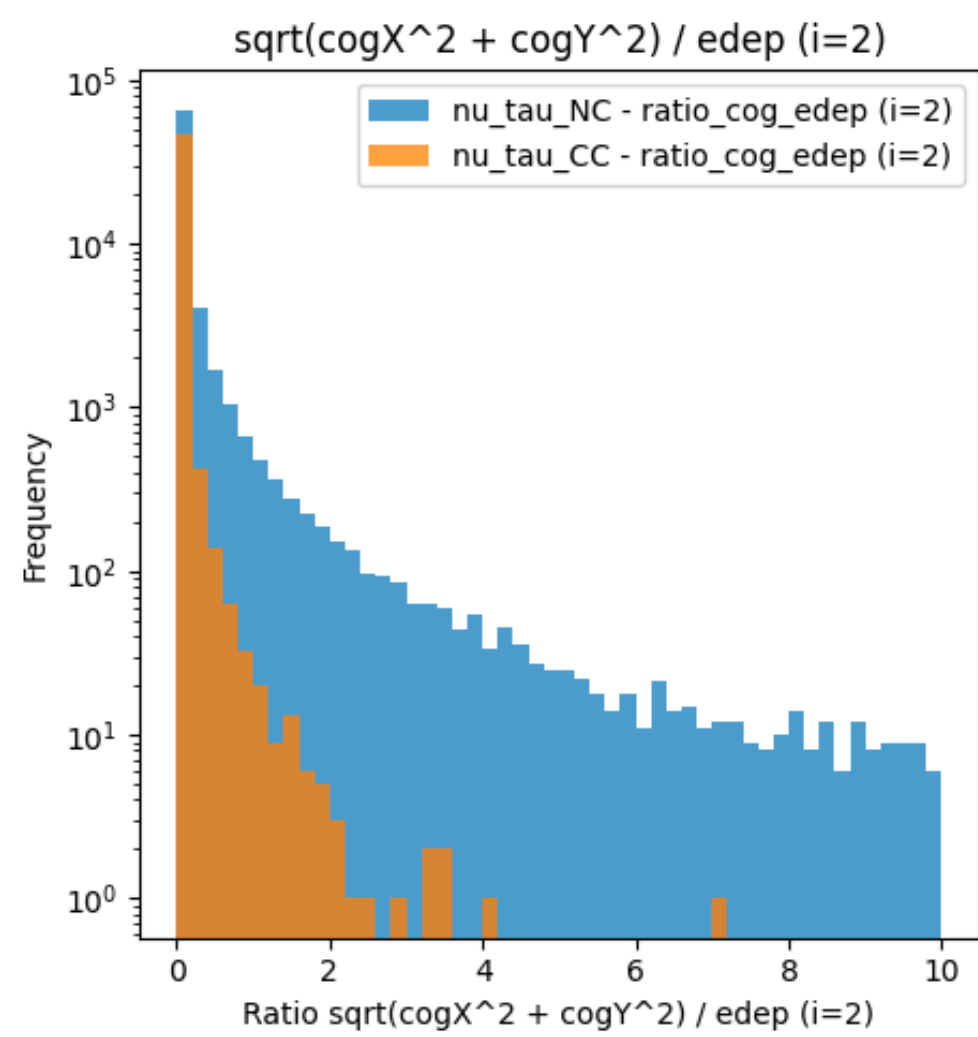
		Predicted	
		0	1
Actual	0	TN	FP
	1	FN	TP

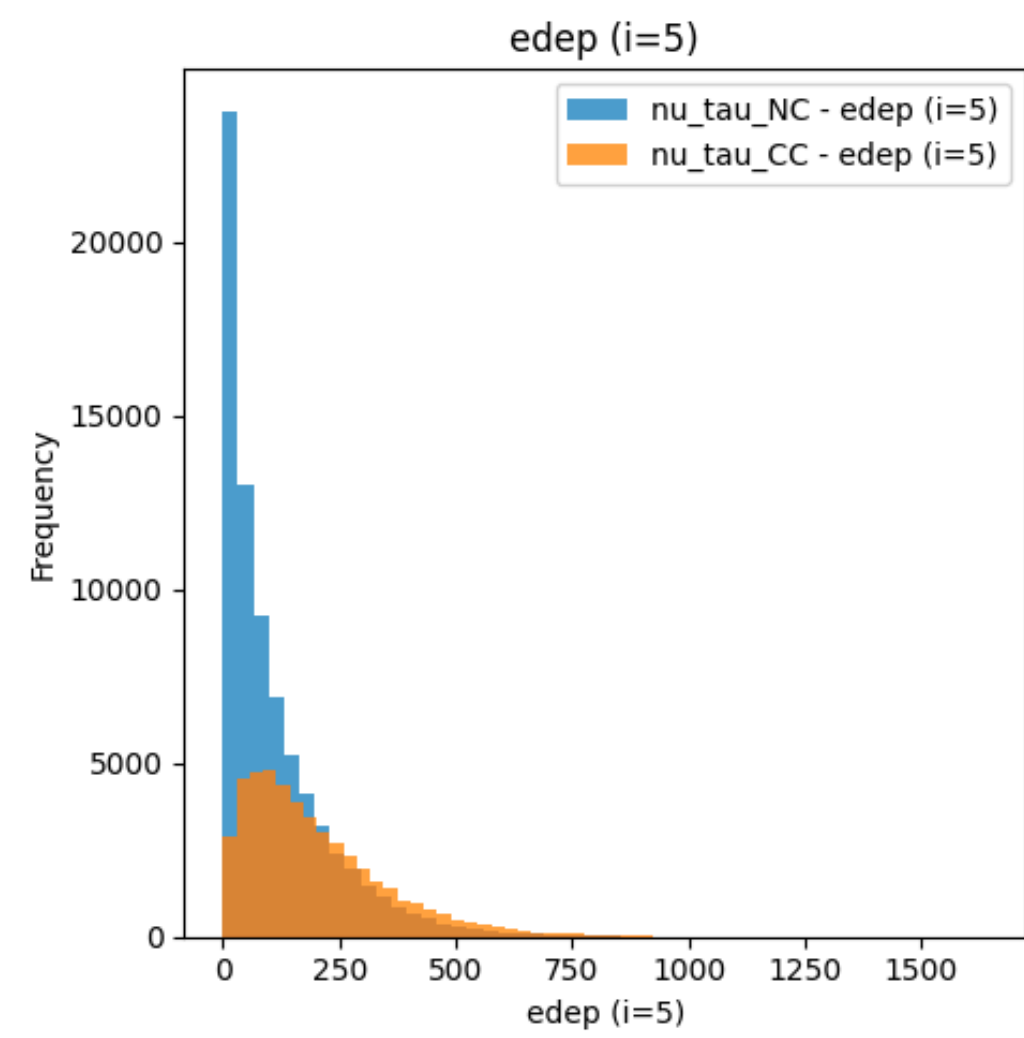
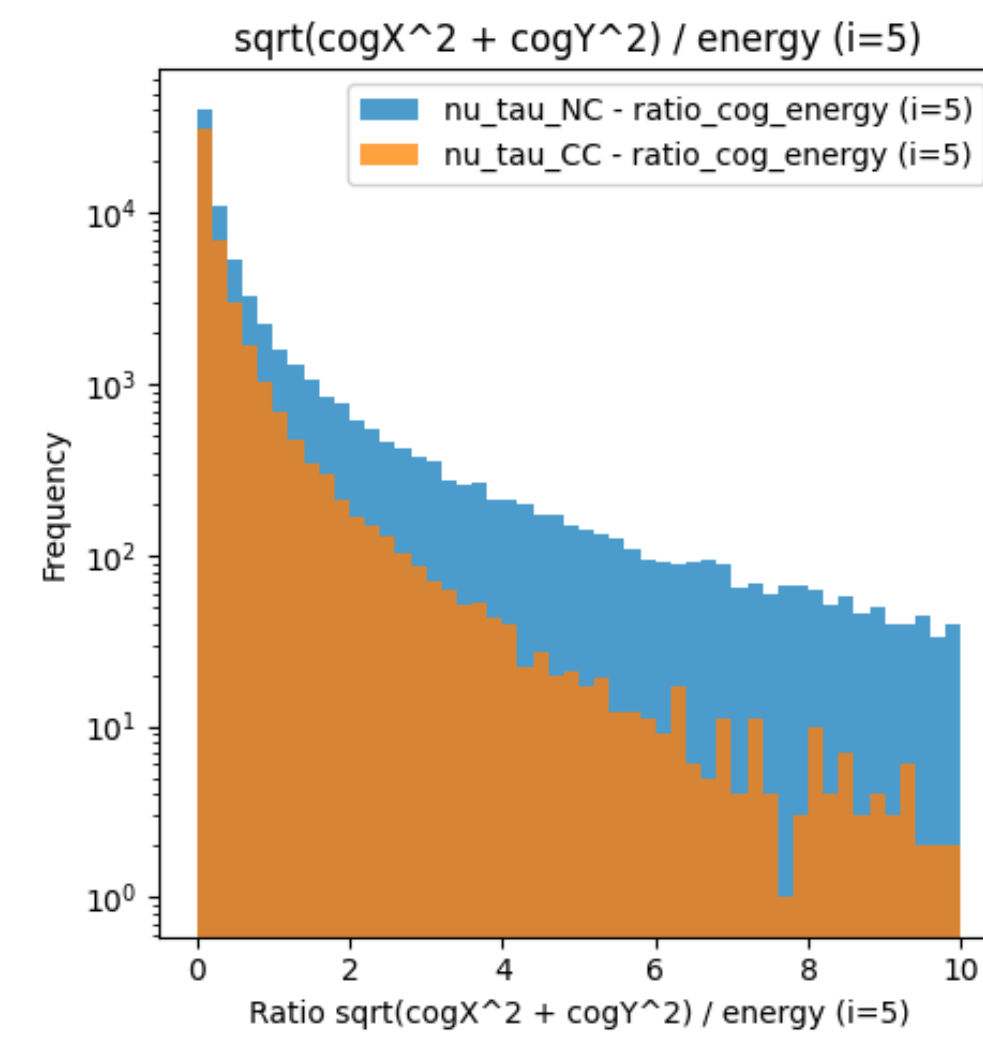
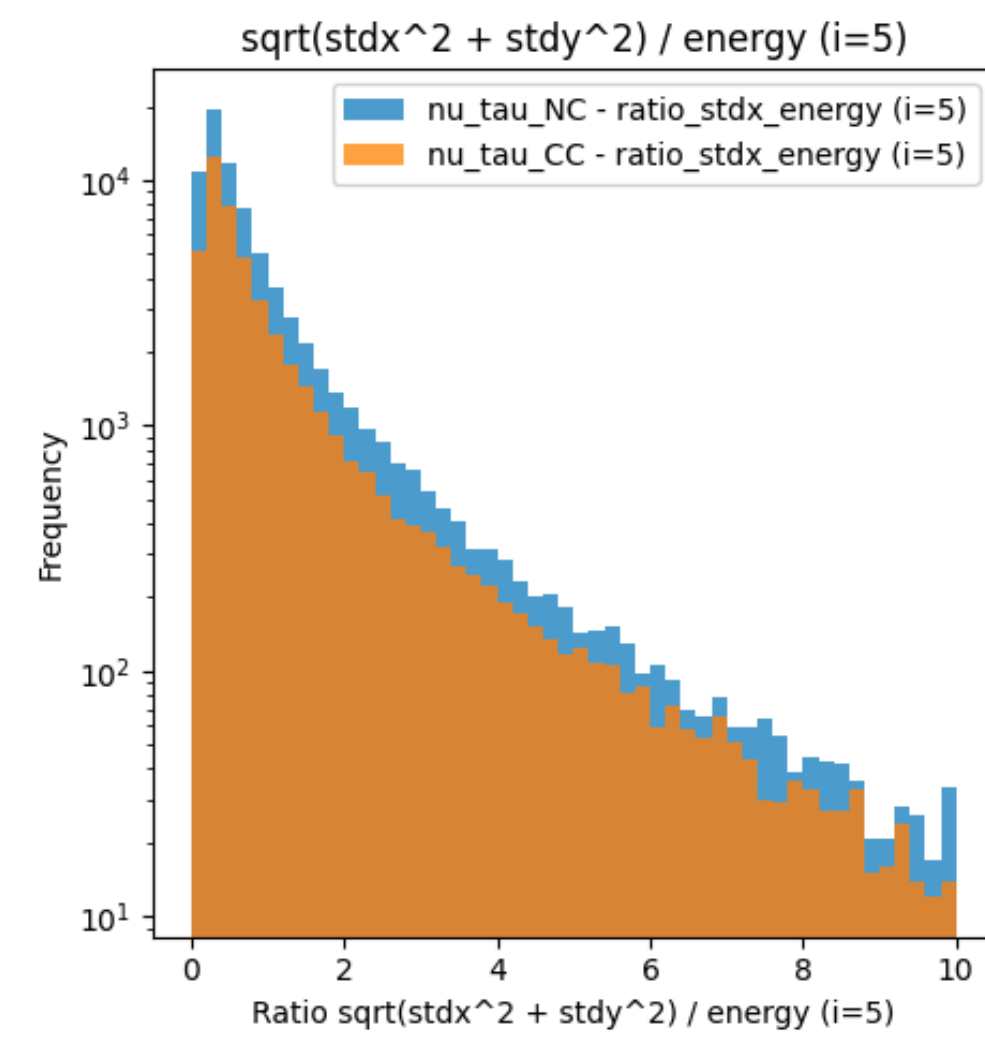
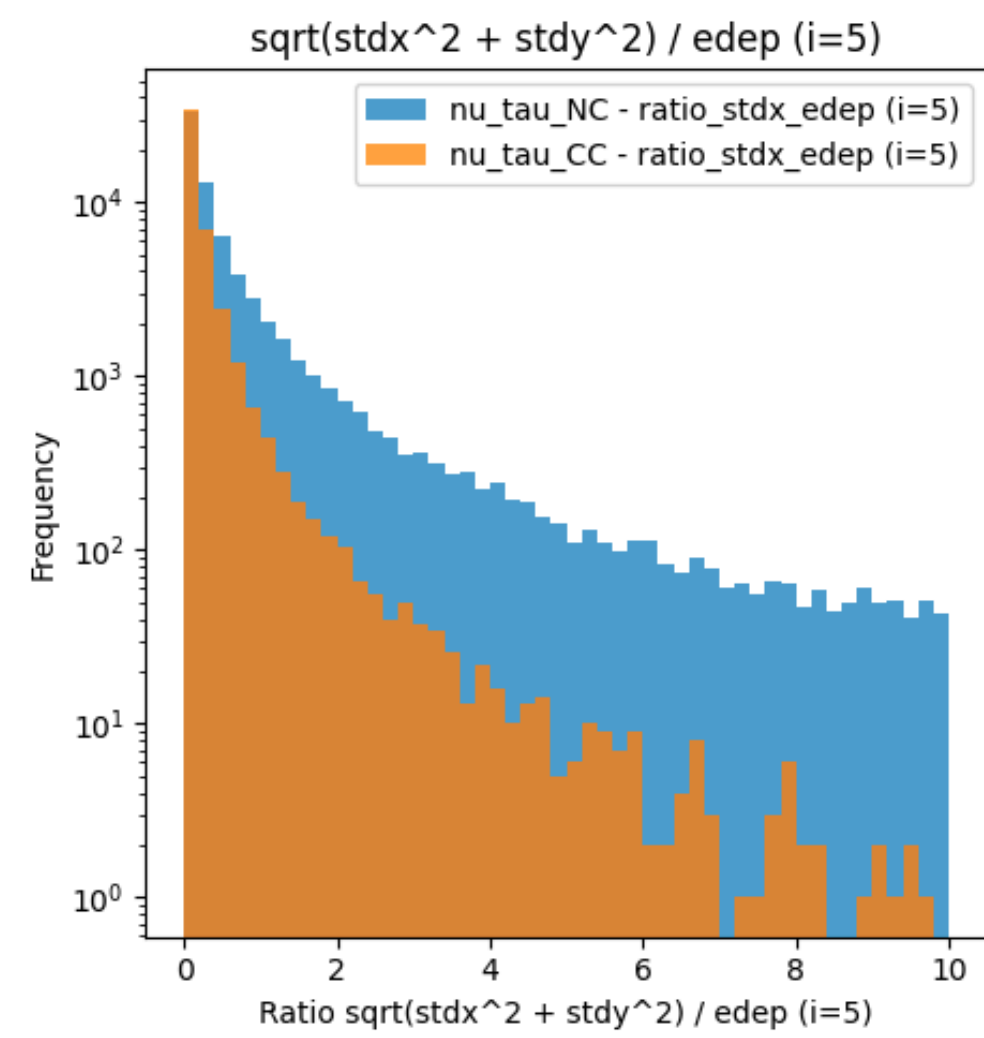
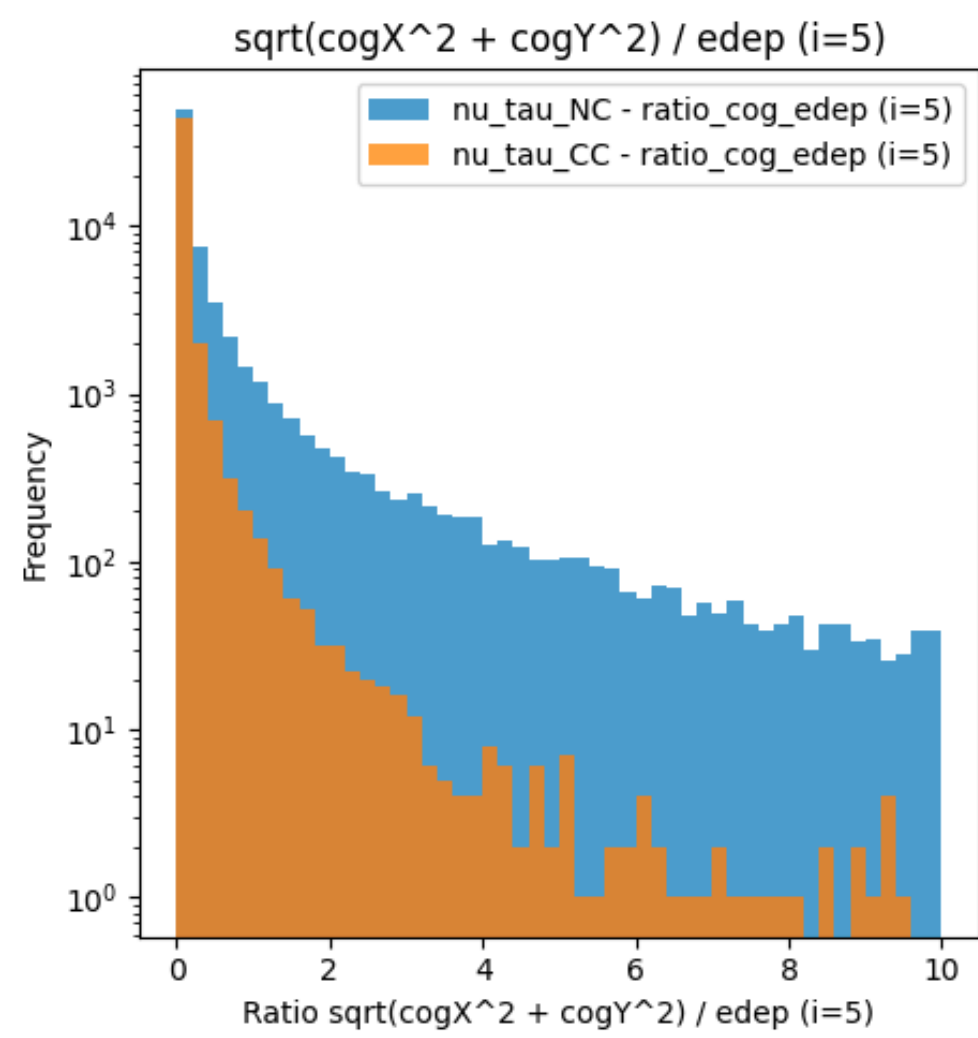
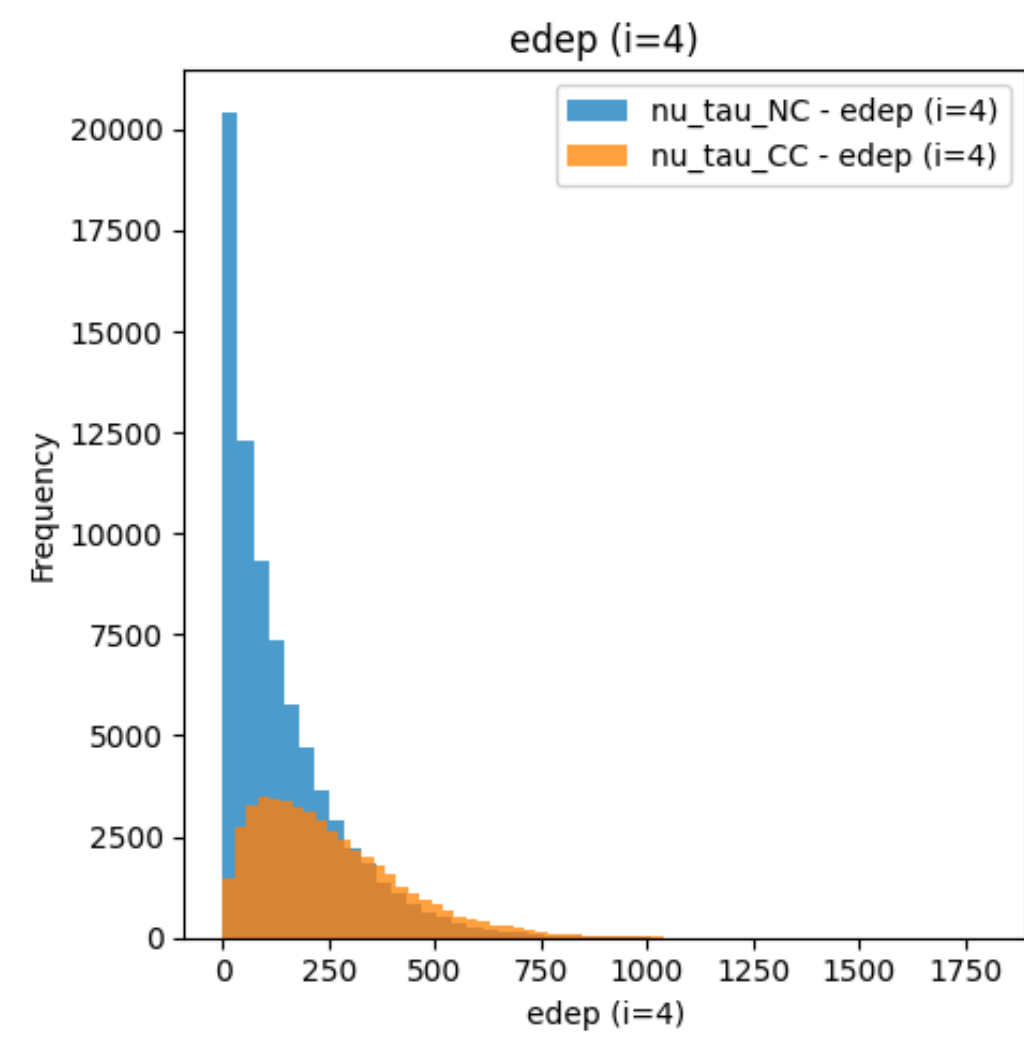
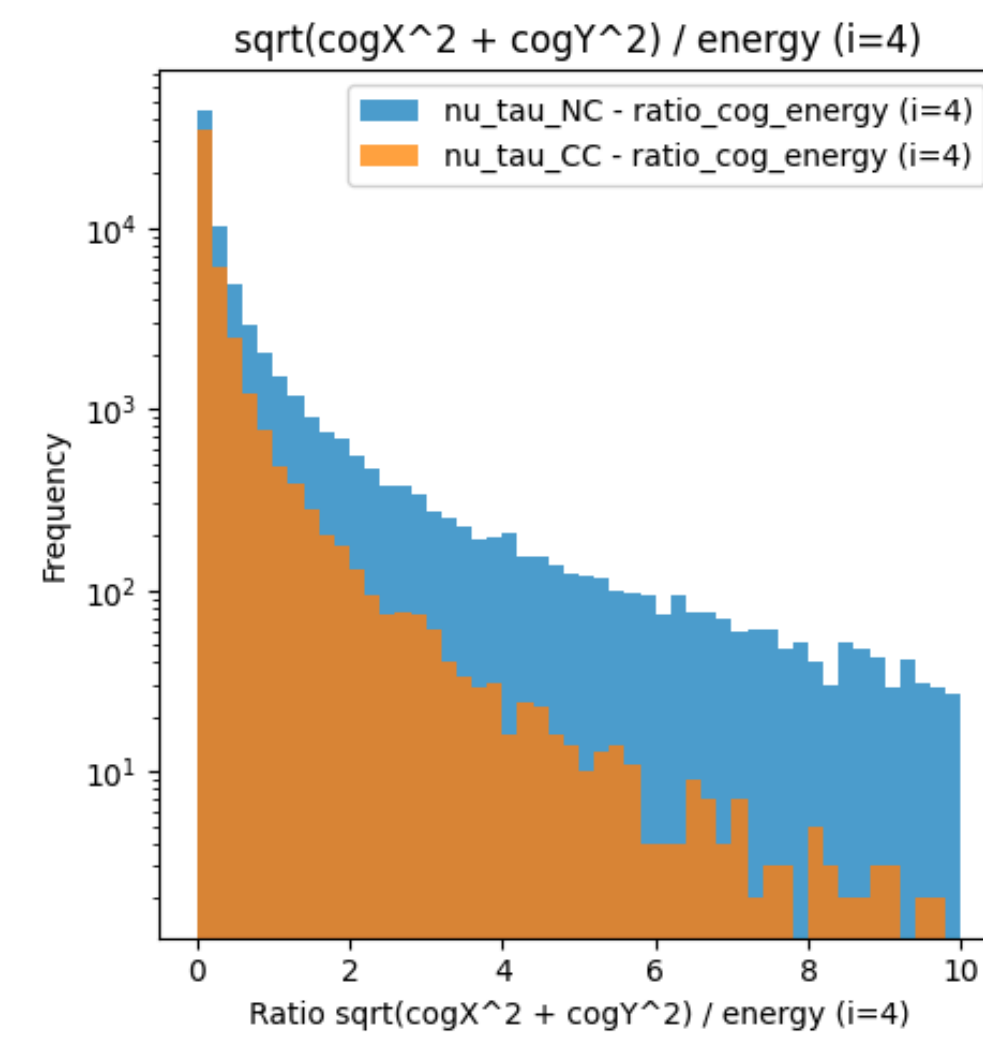
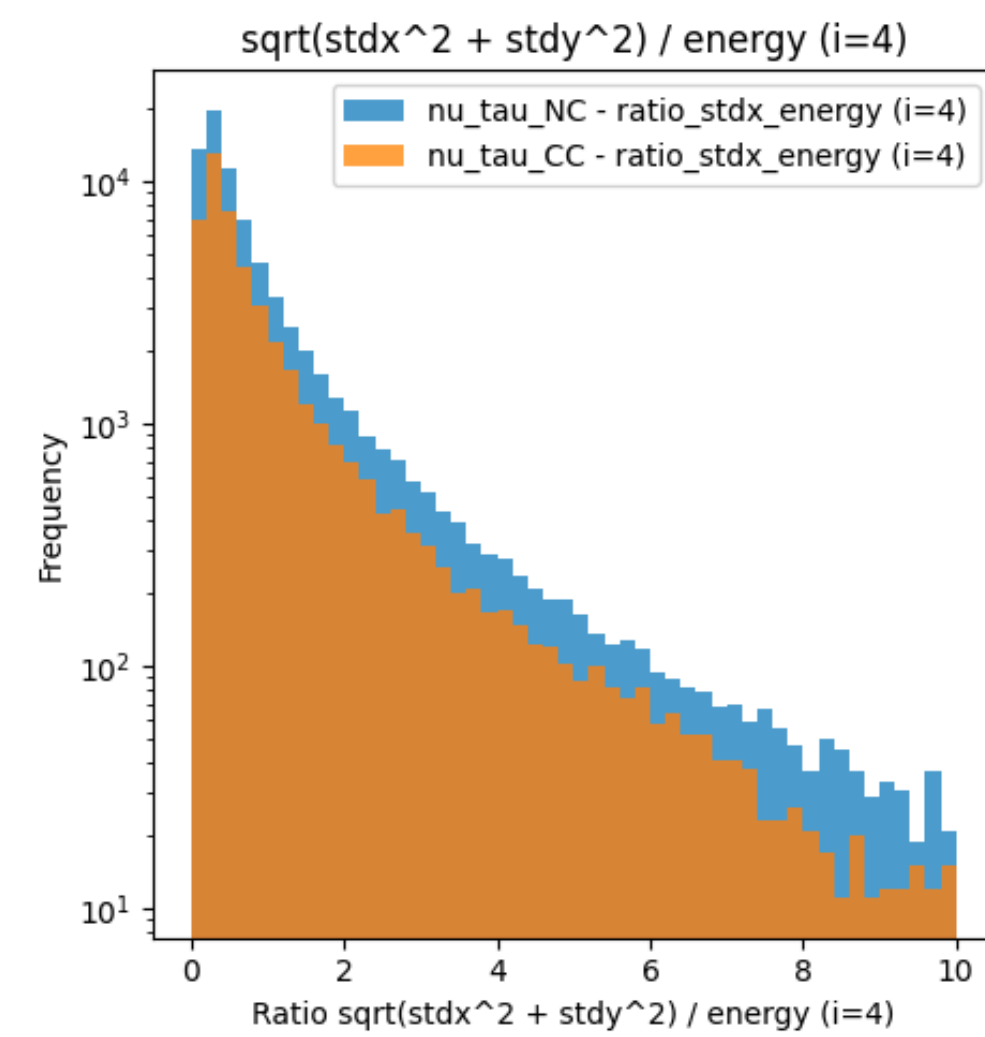
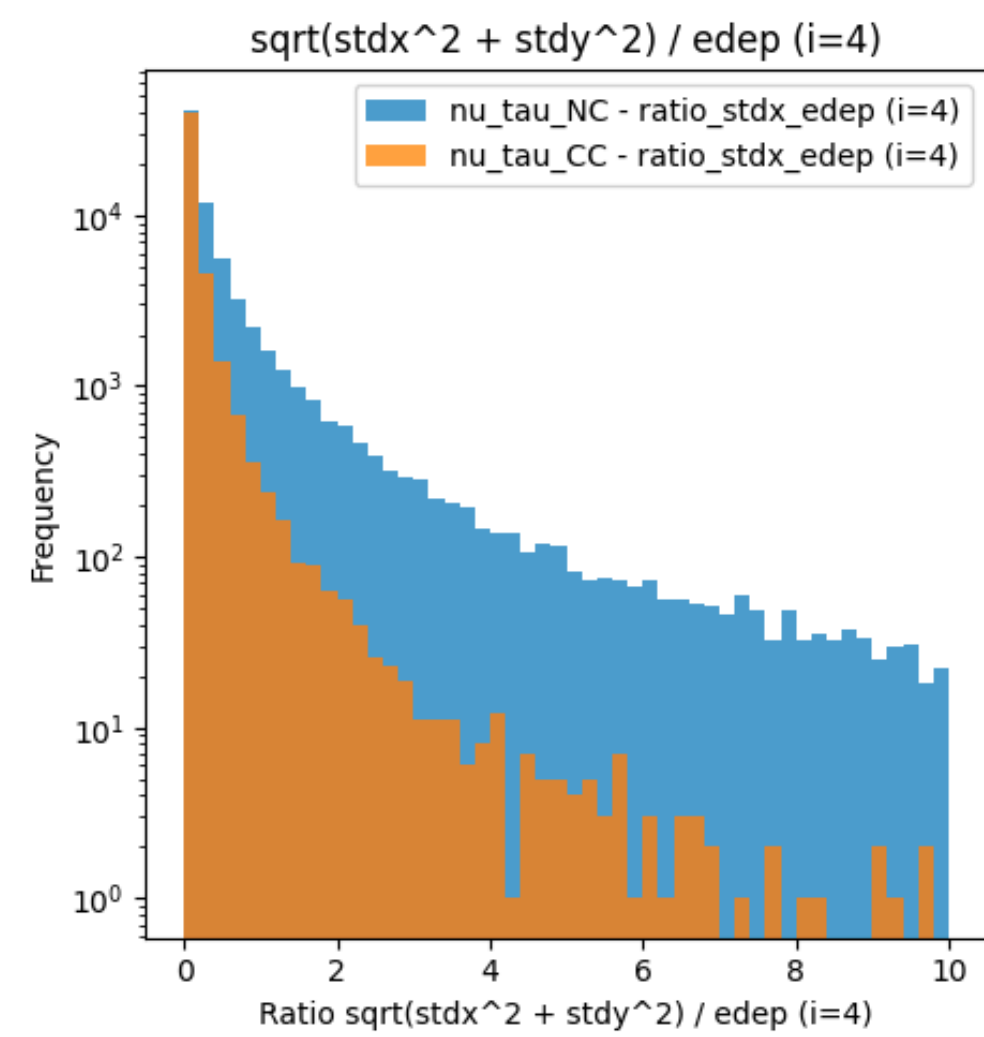
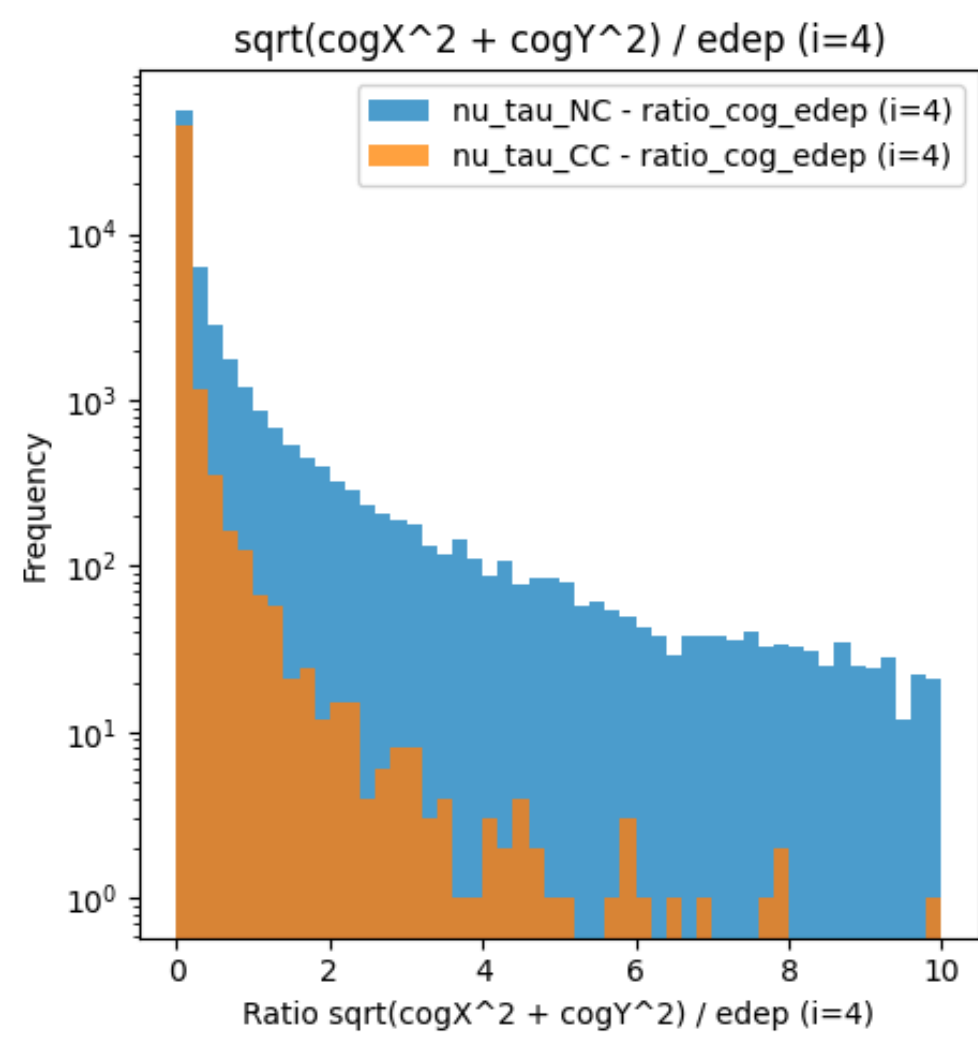


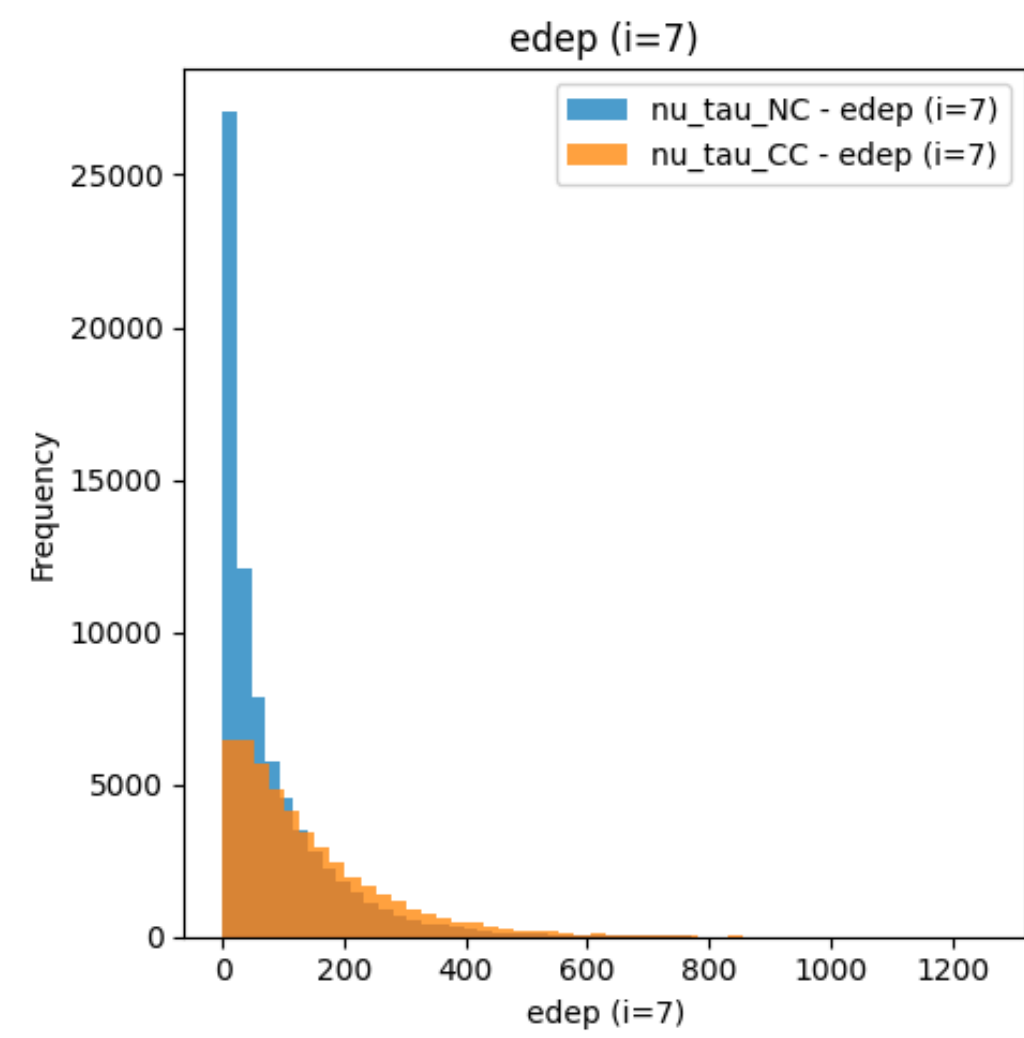
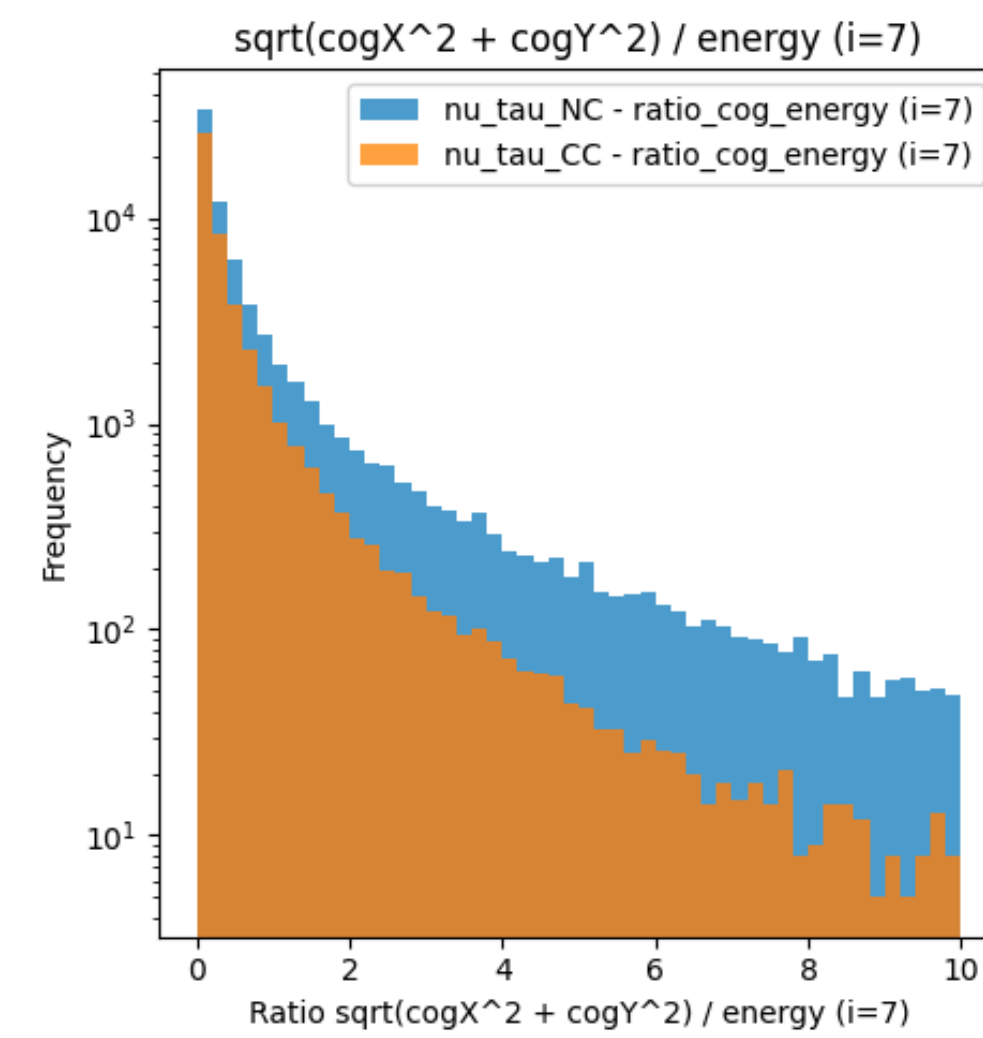
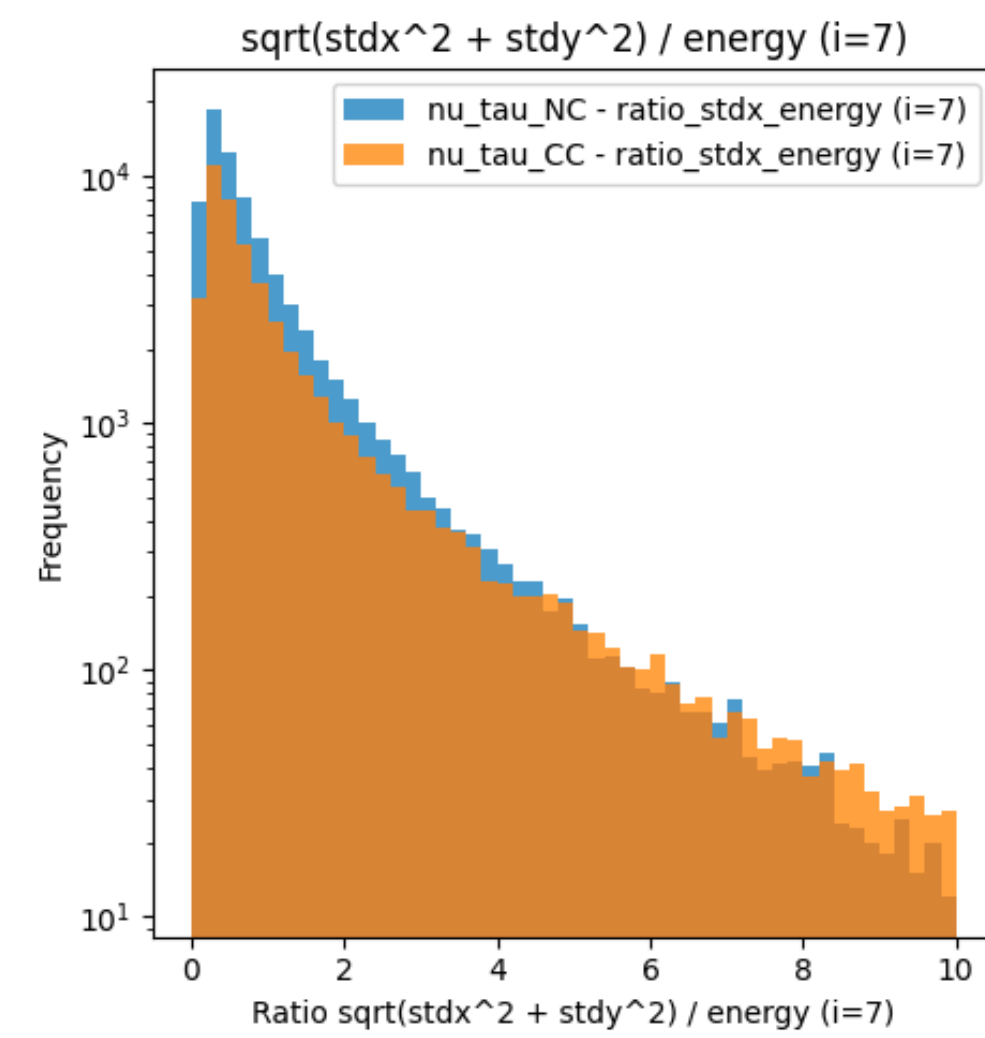
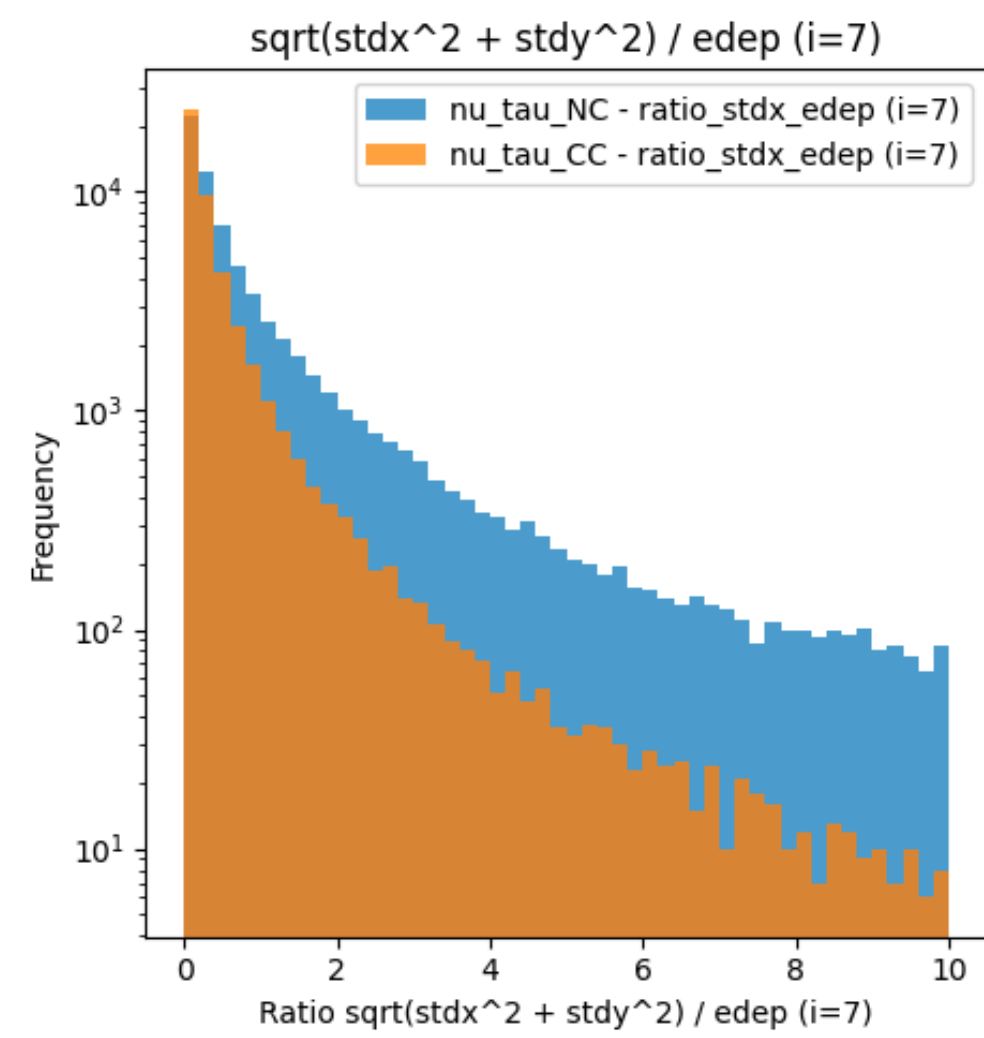
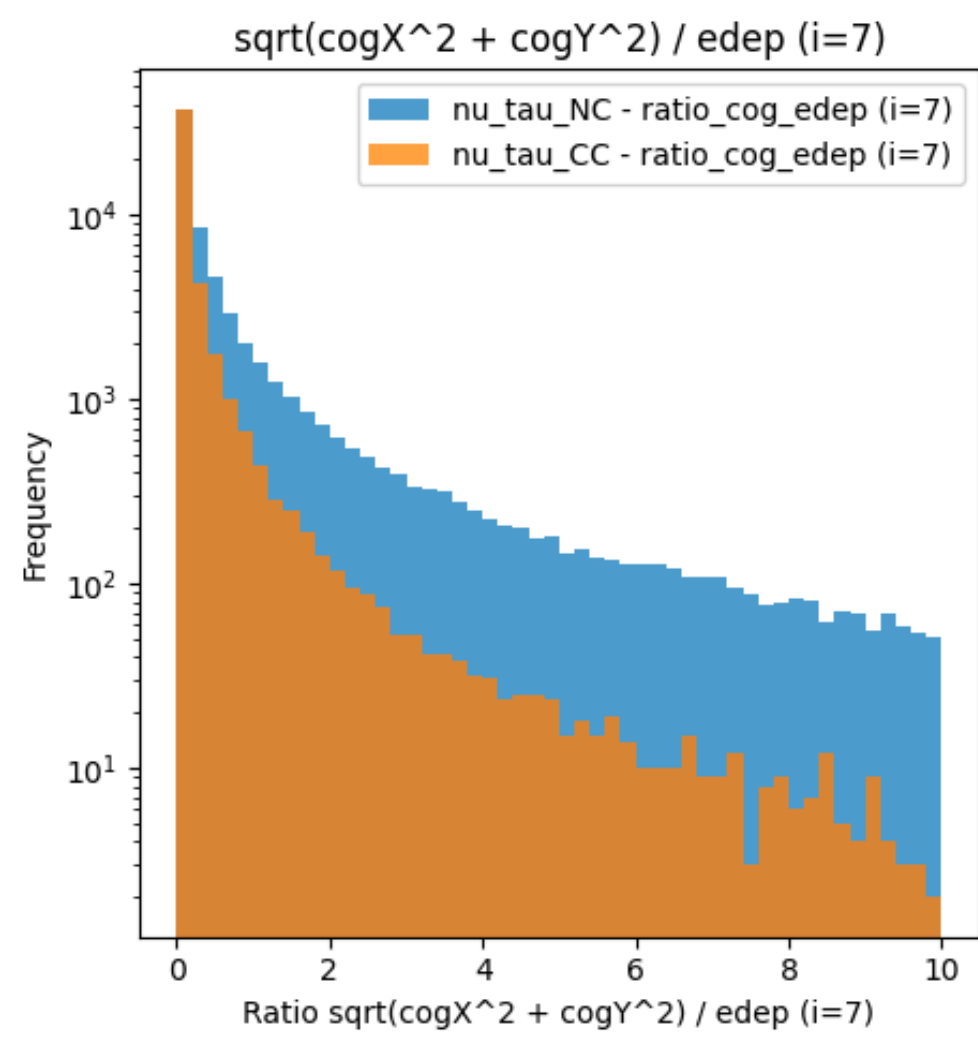
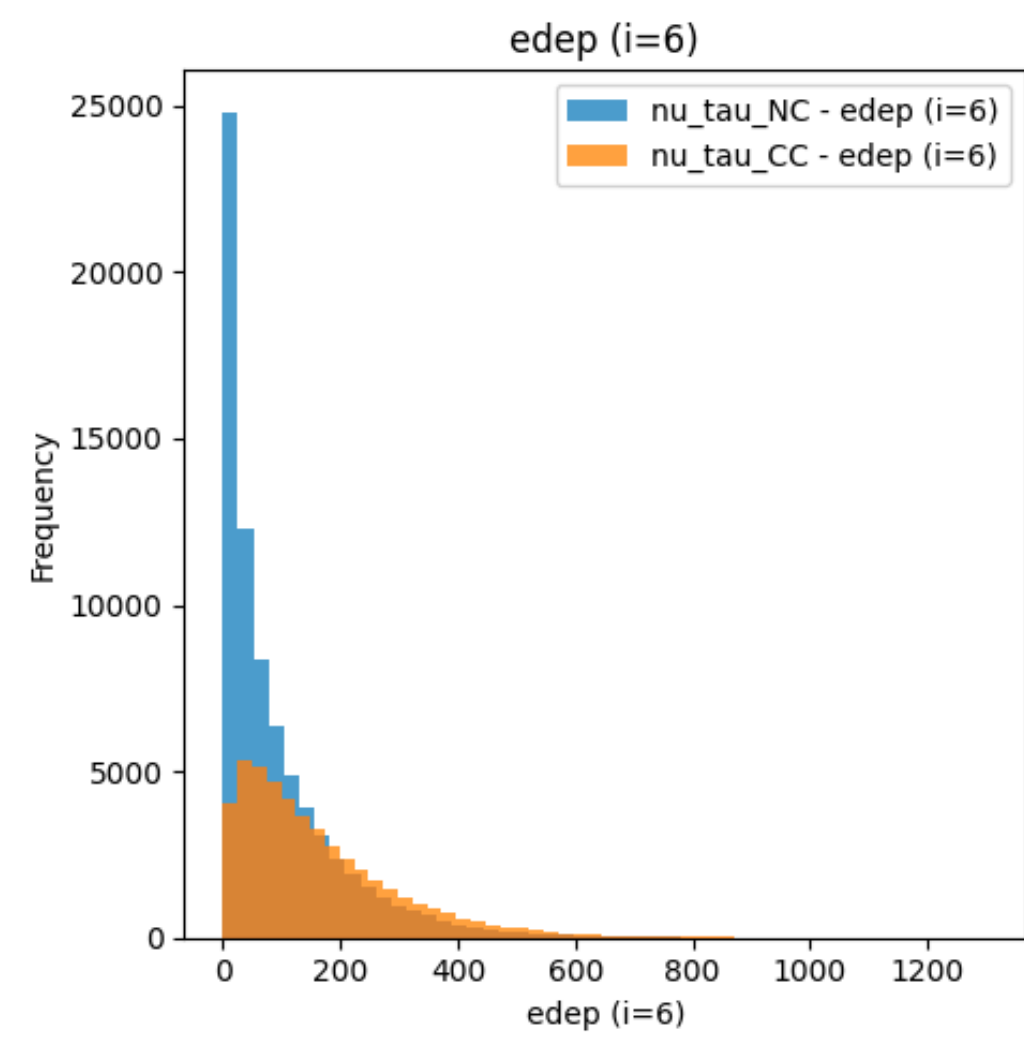
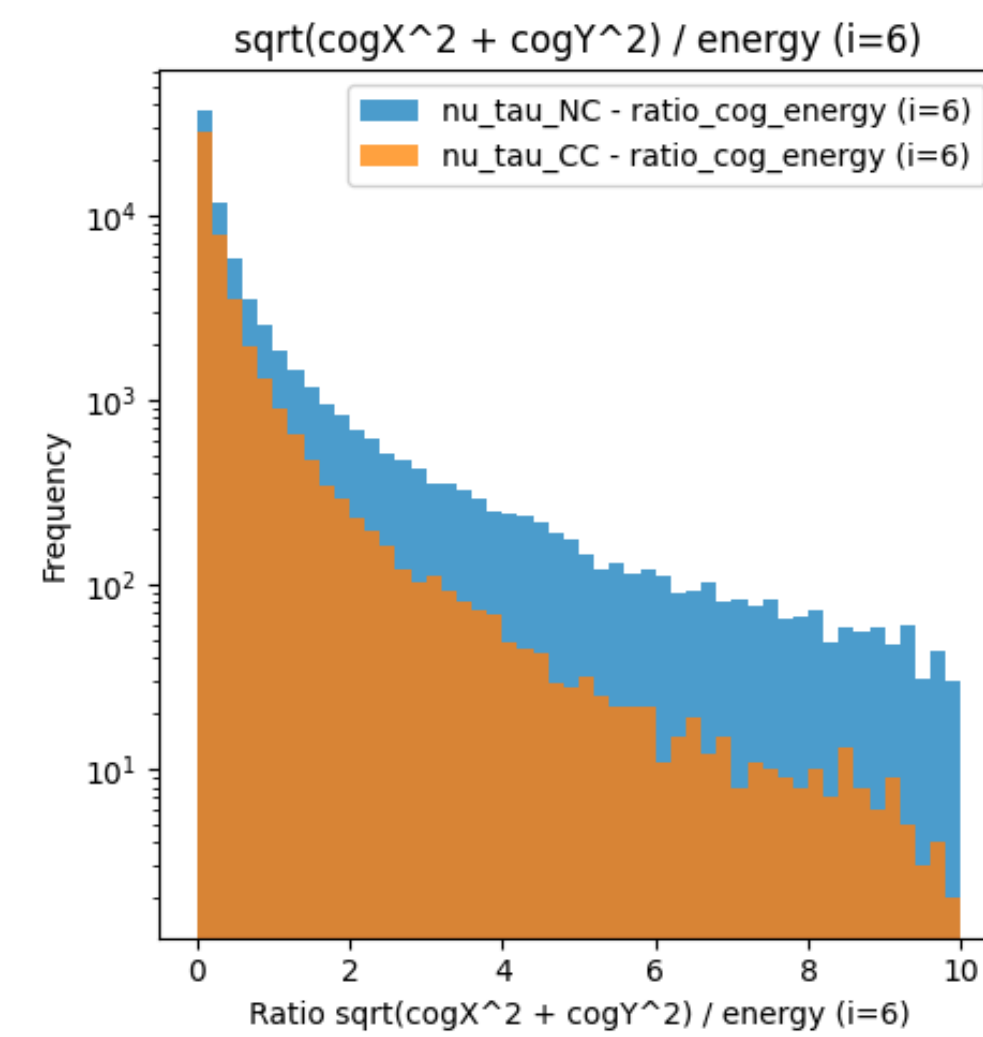
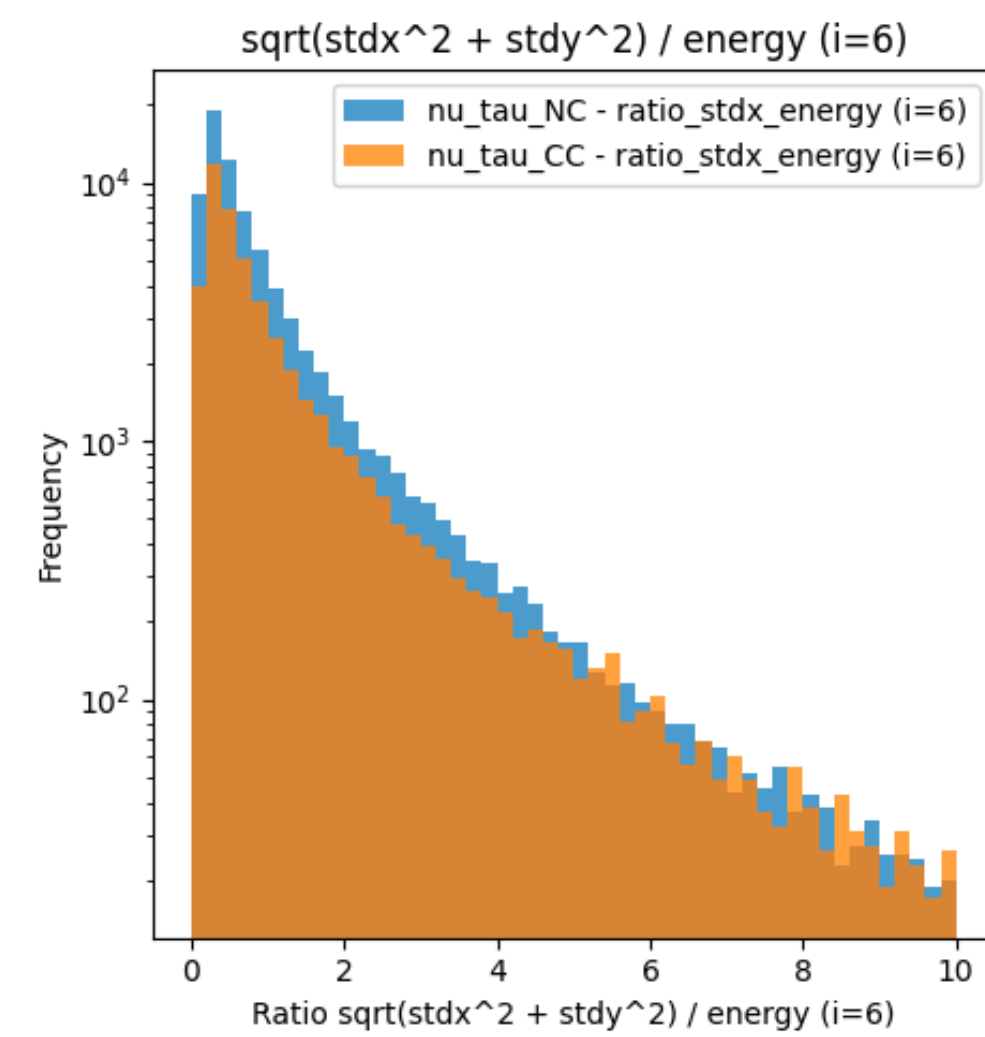
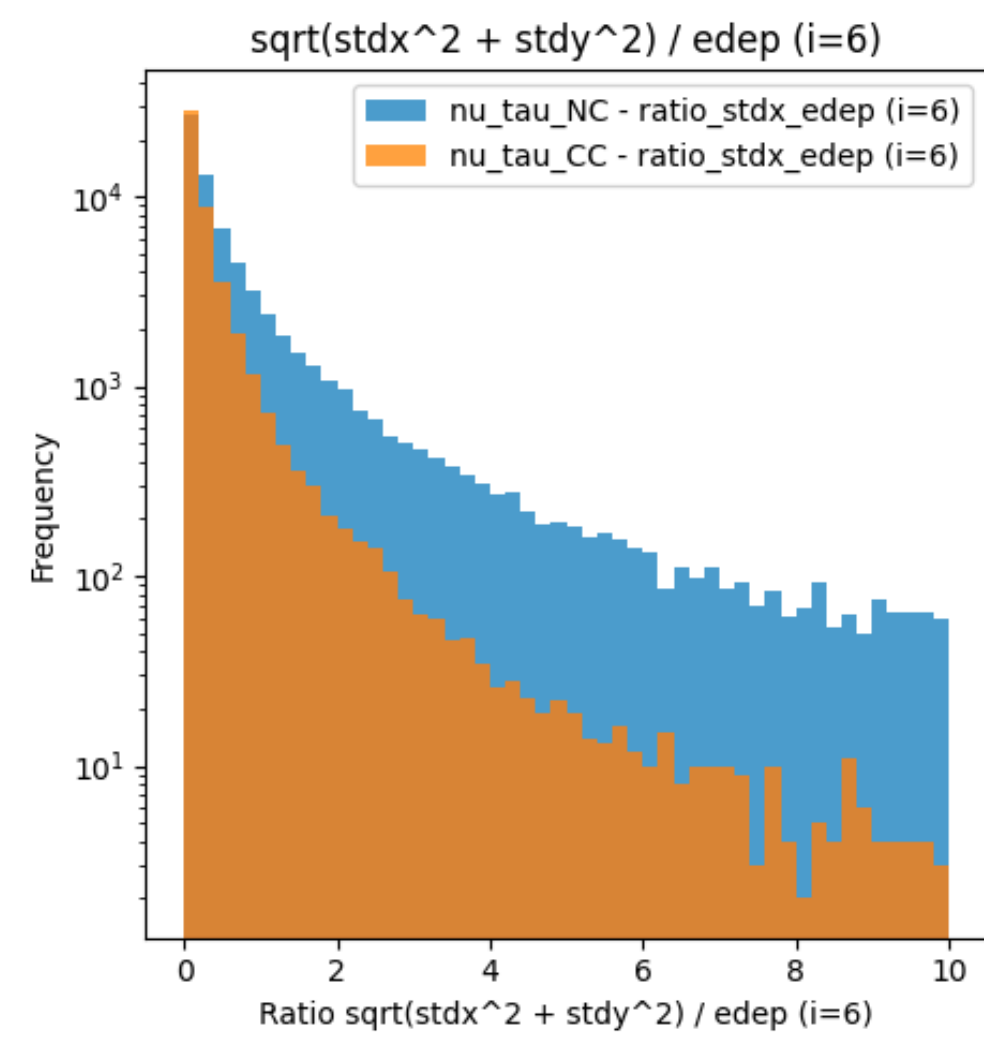
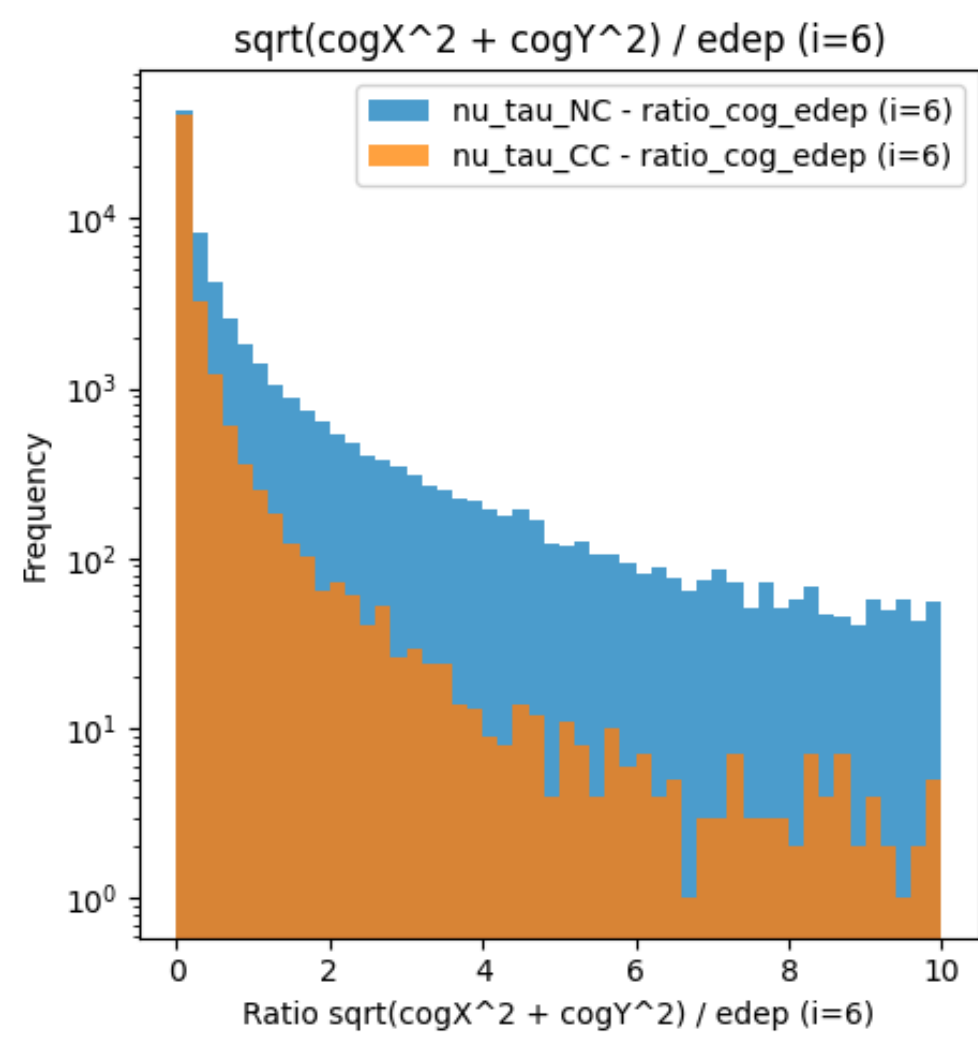
Importance of parameters

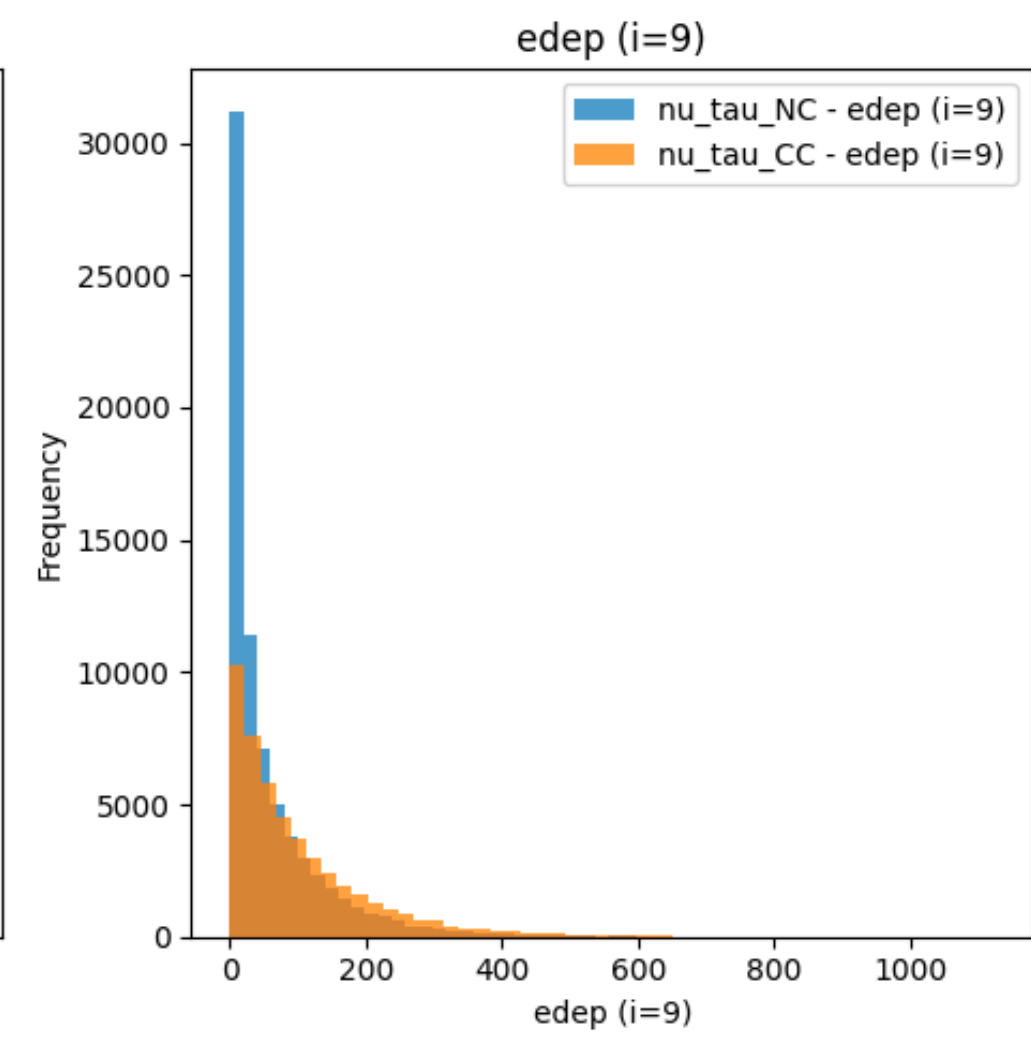
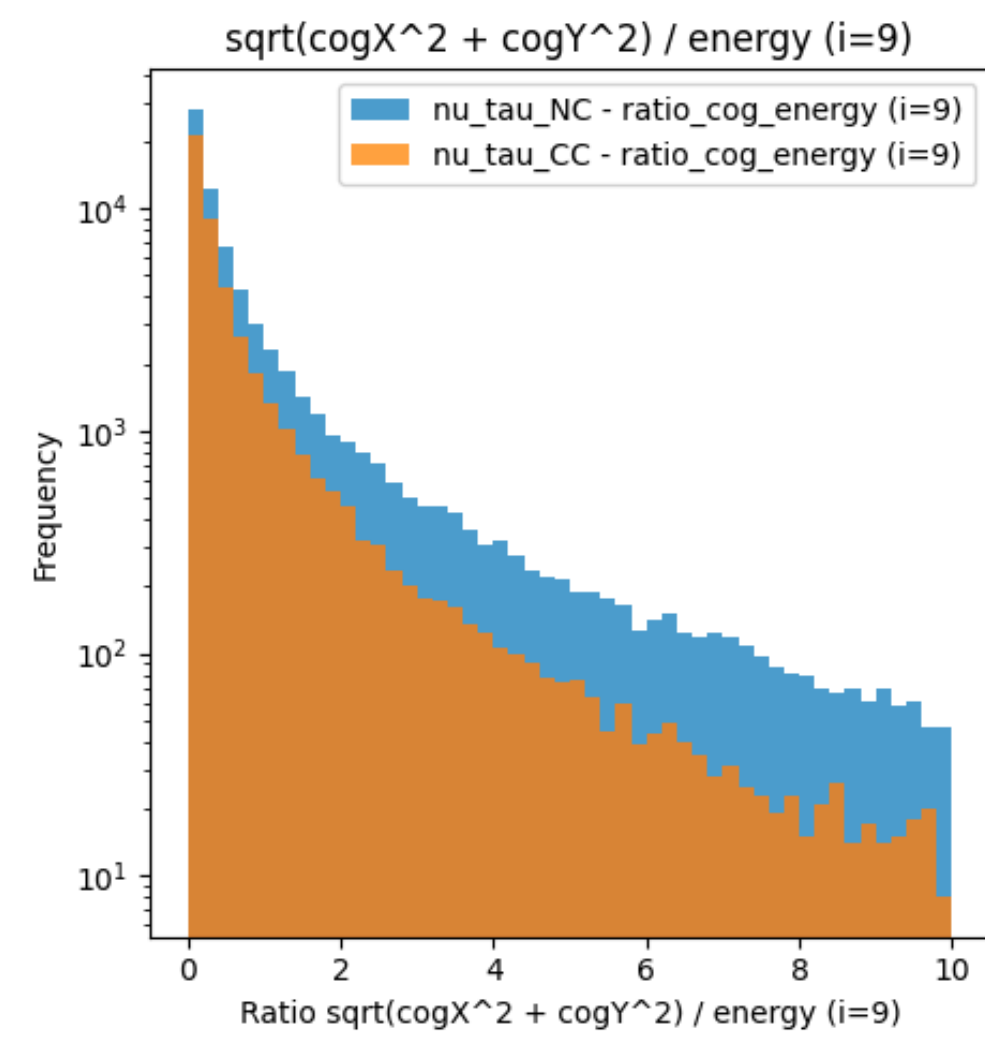
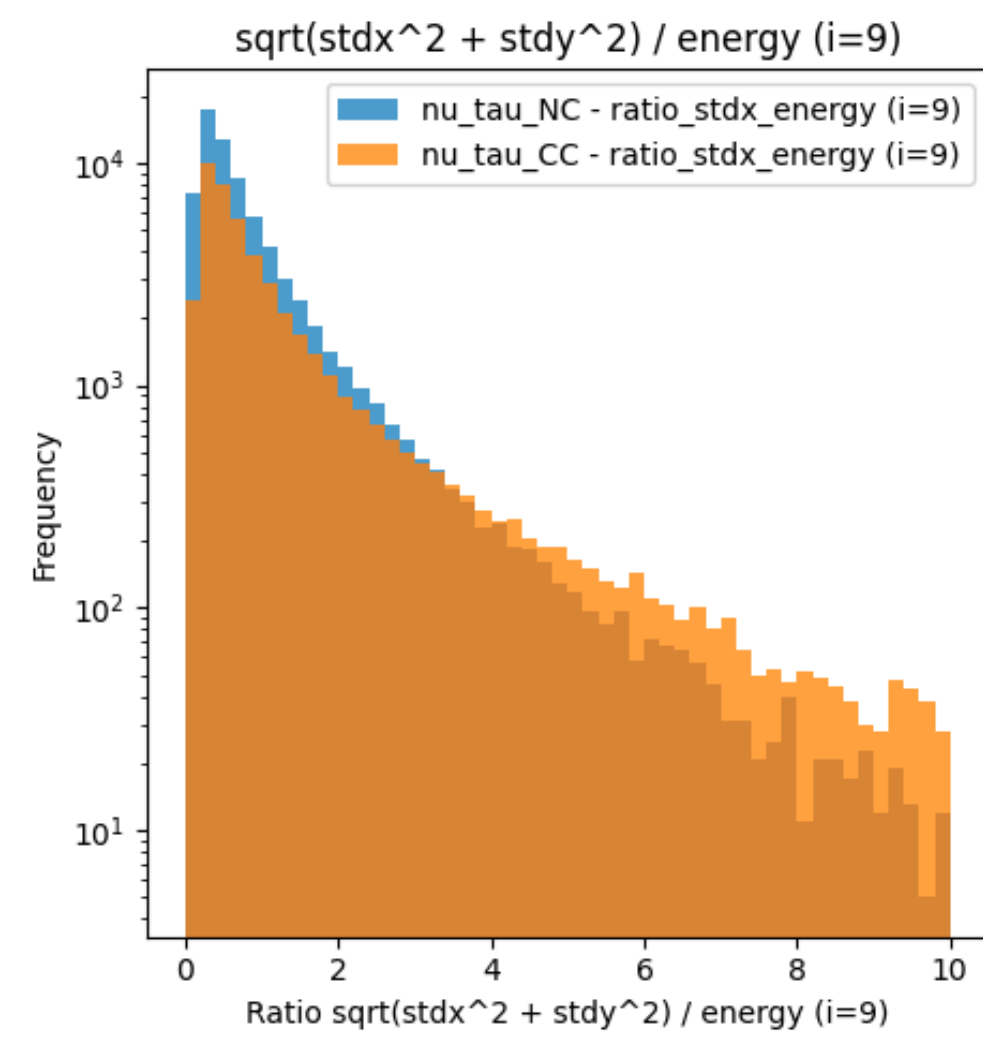
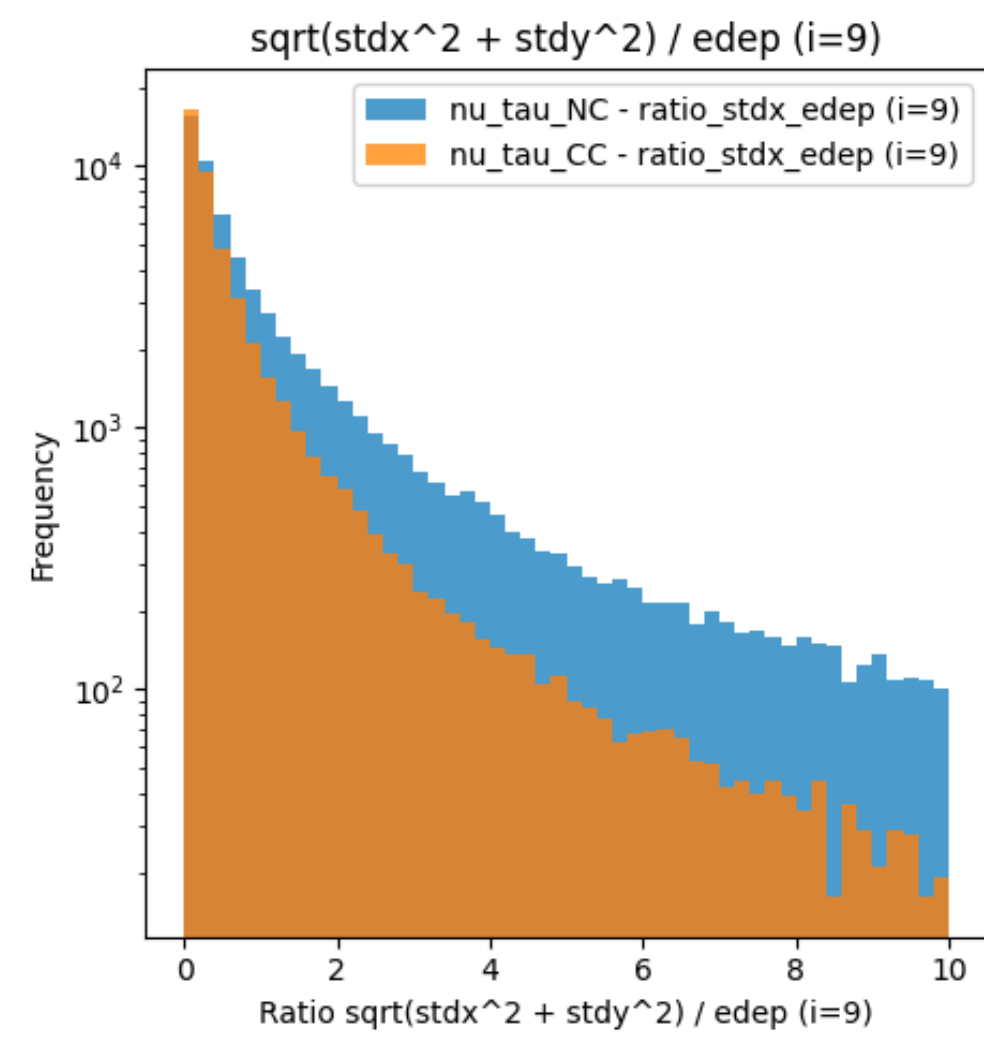
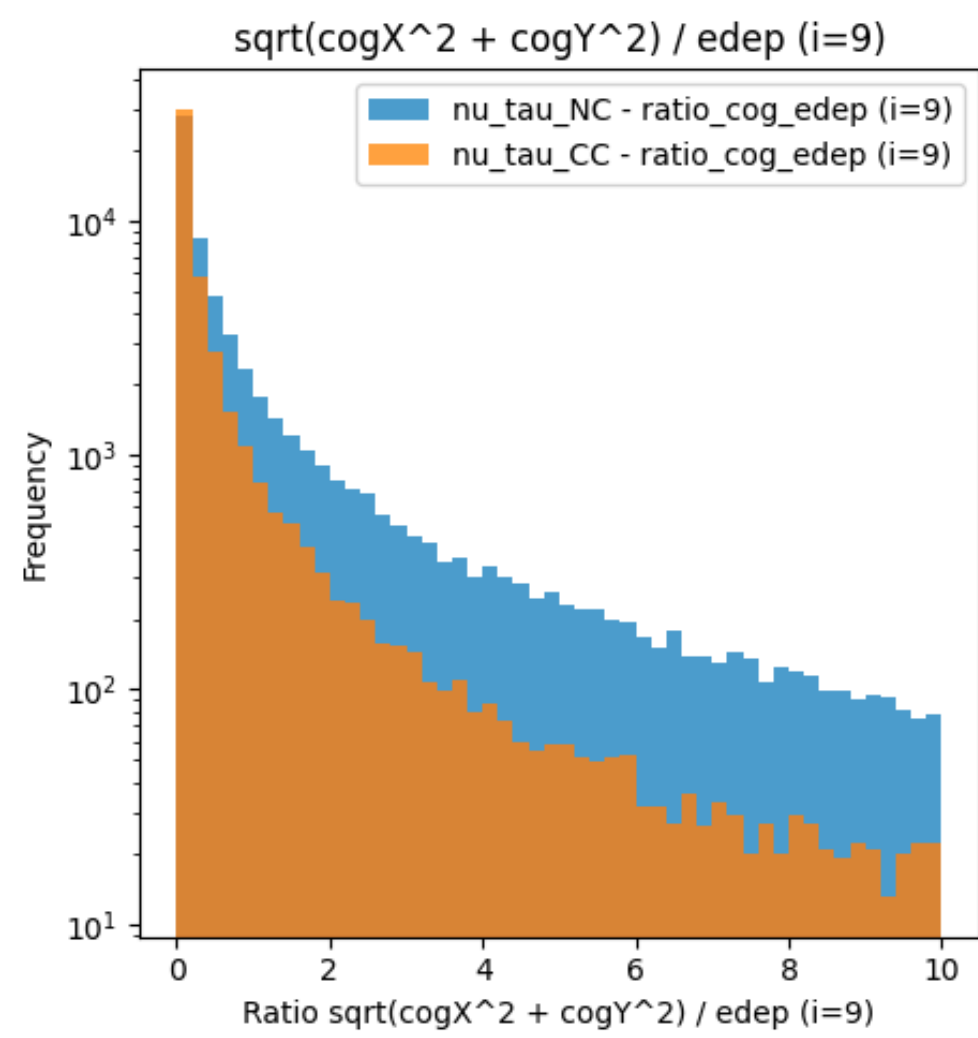
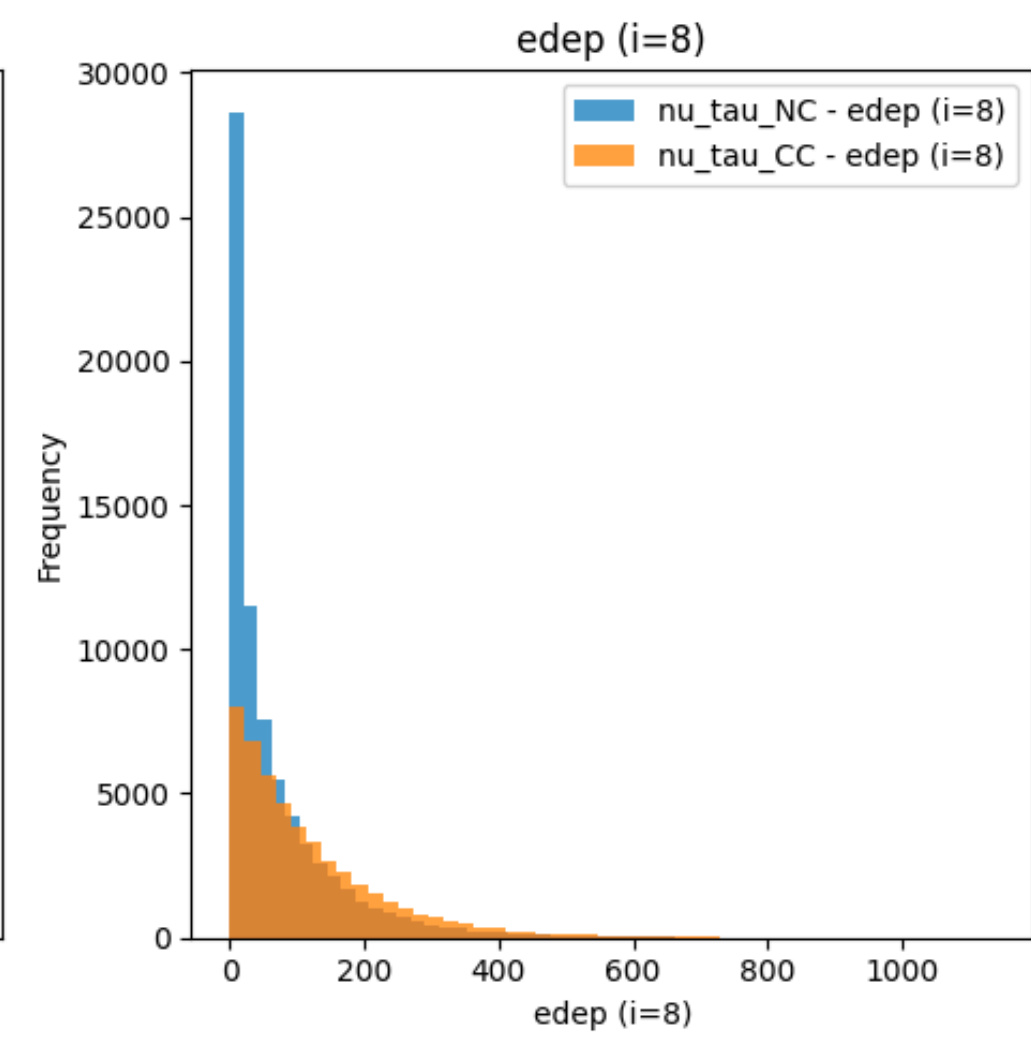
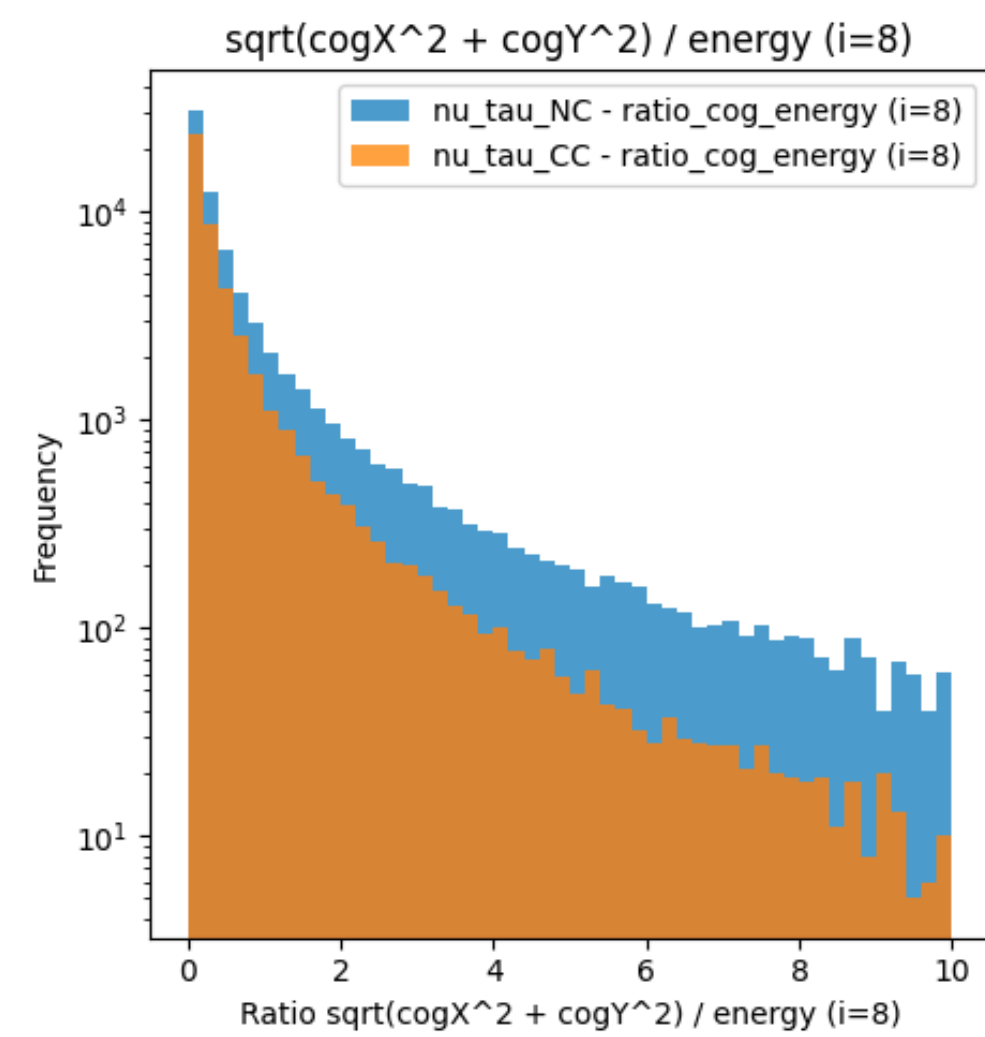
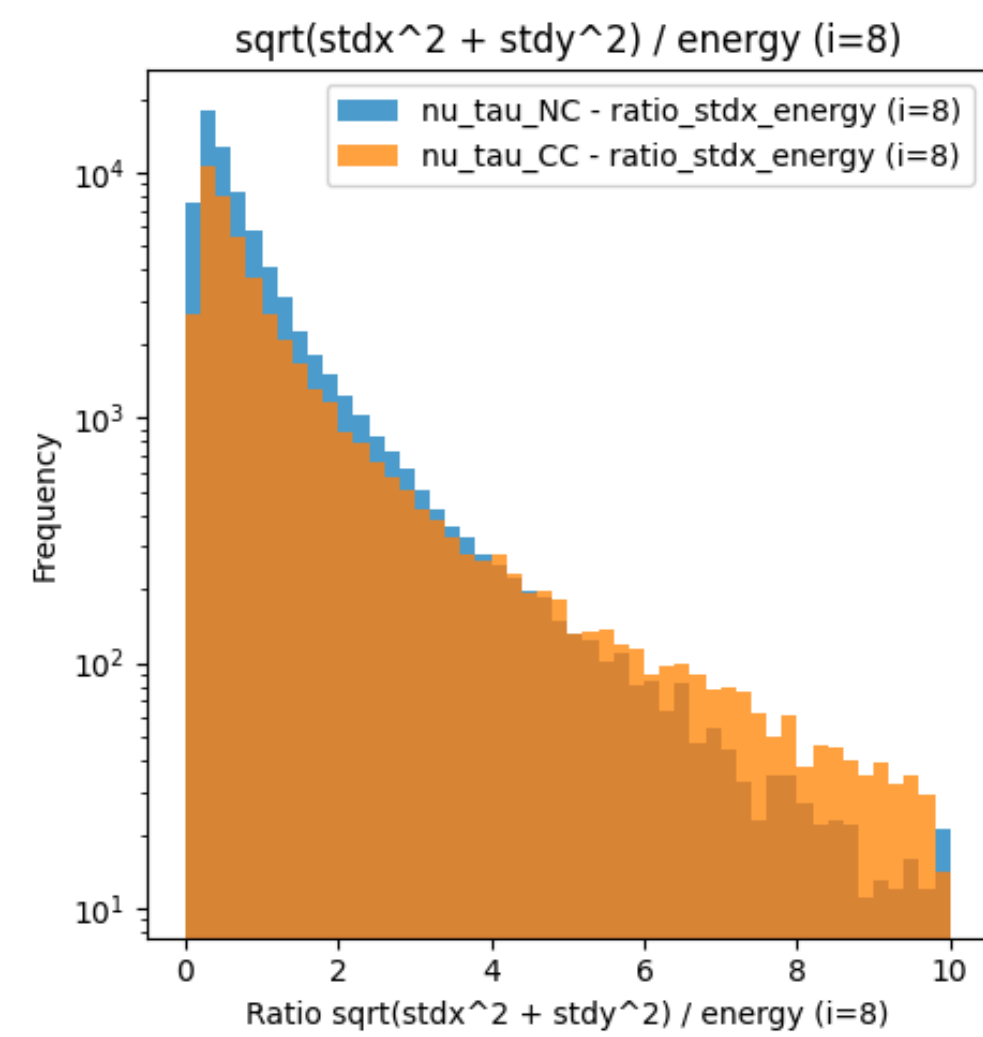
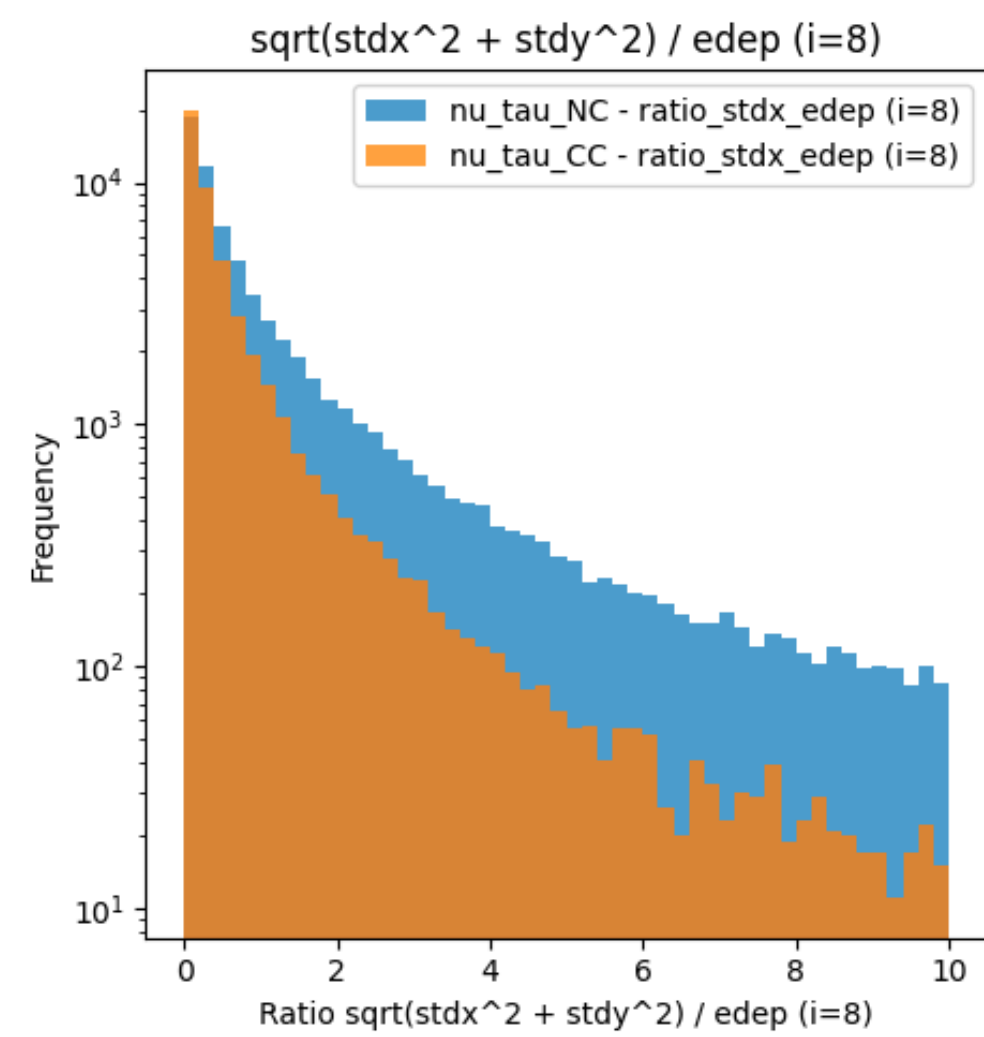
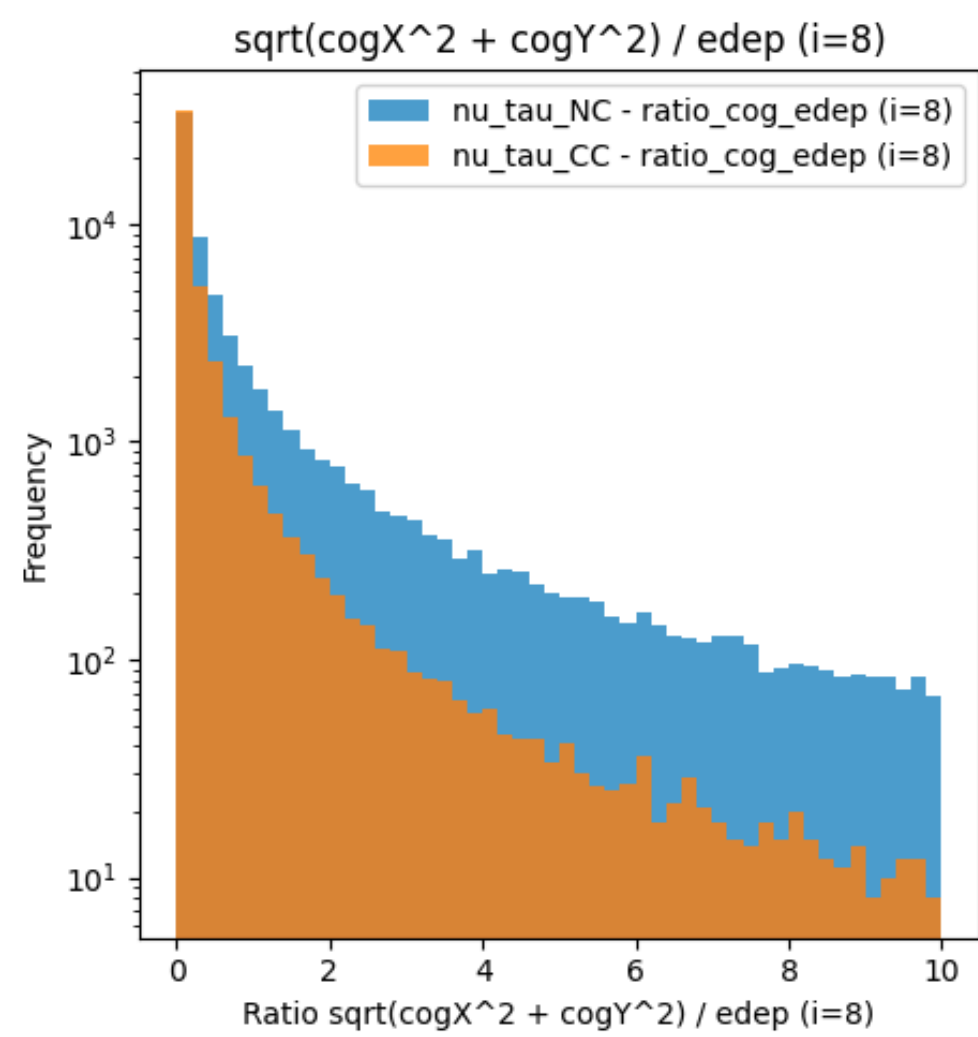


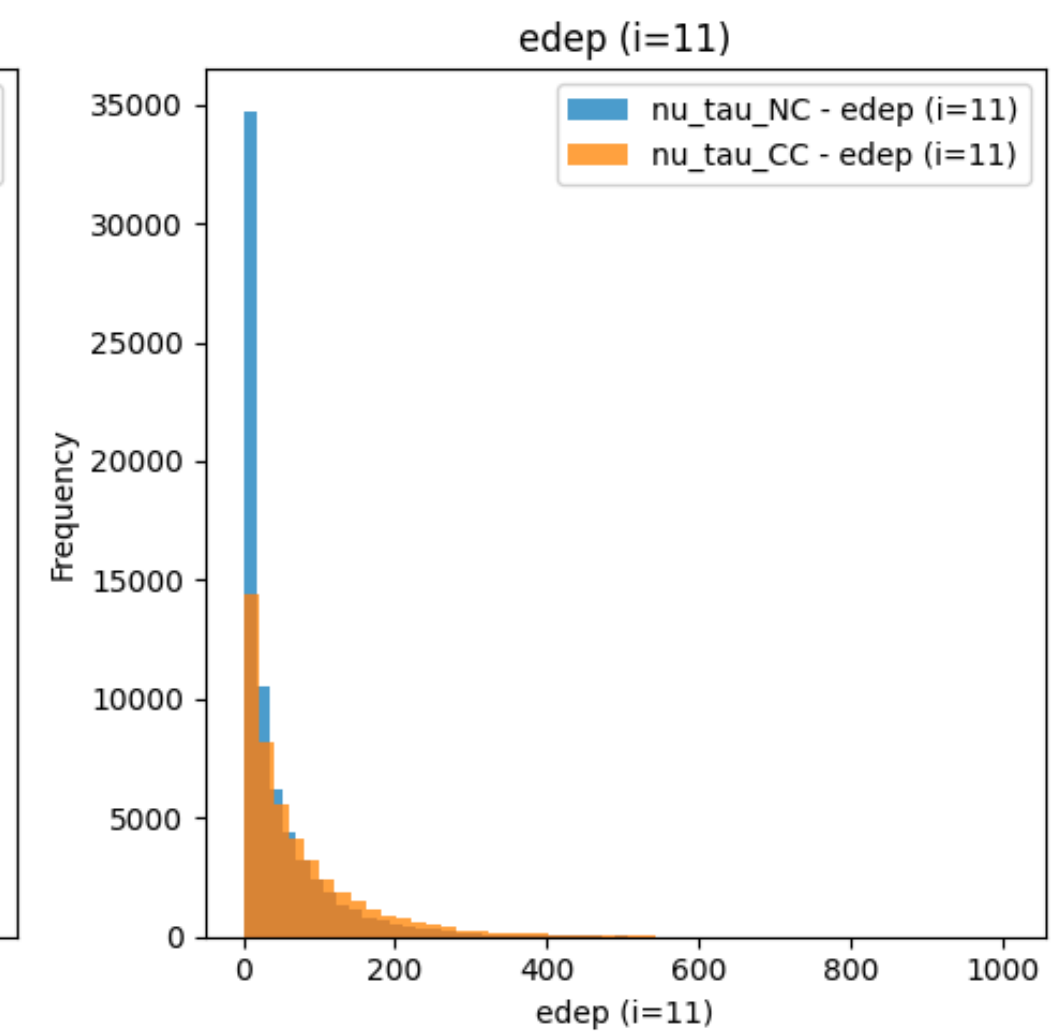
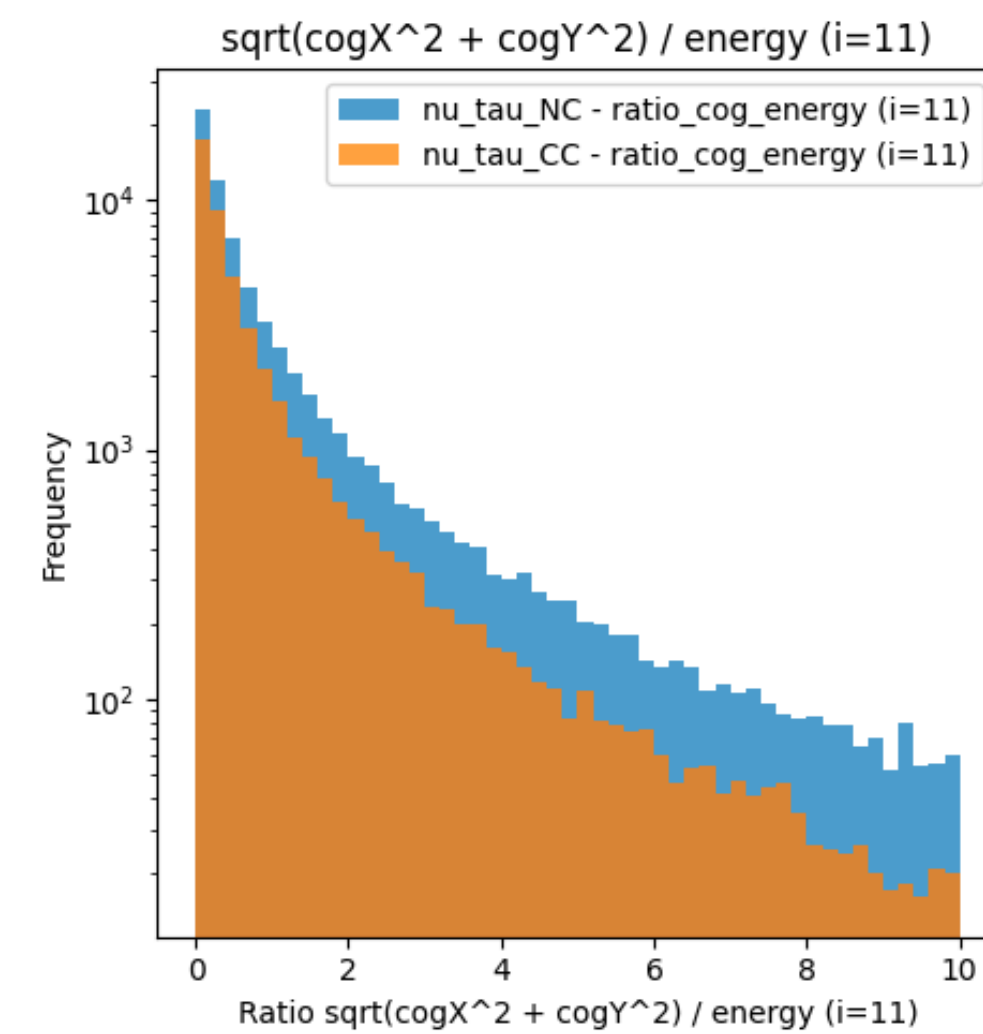
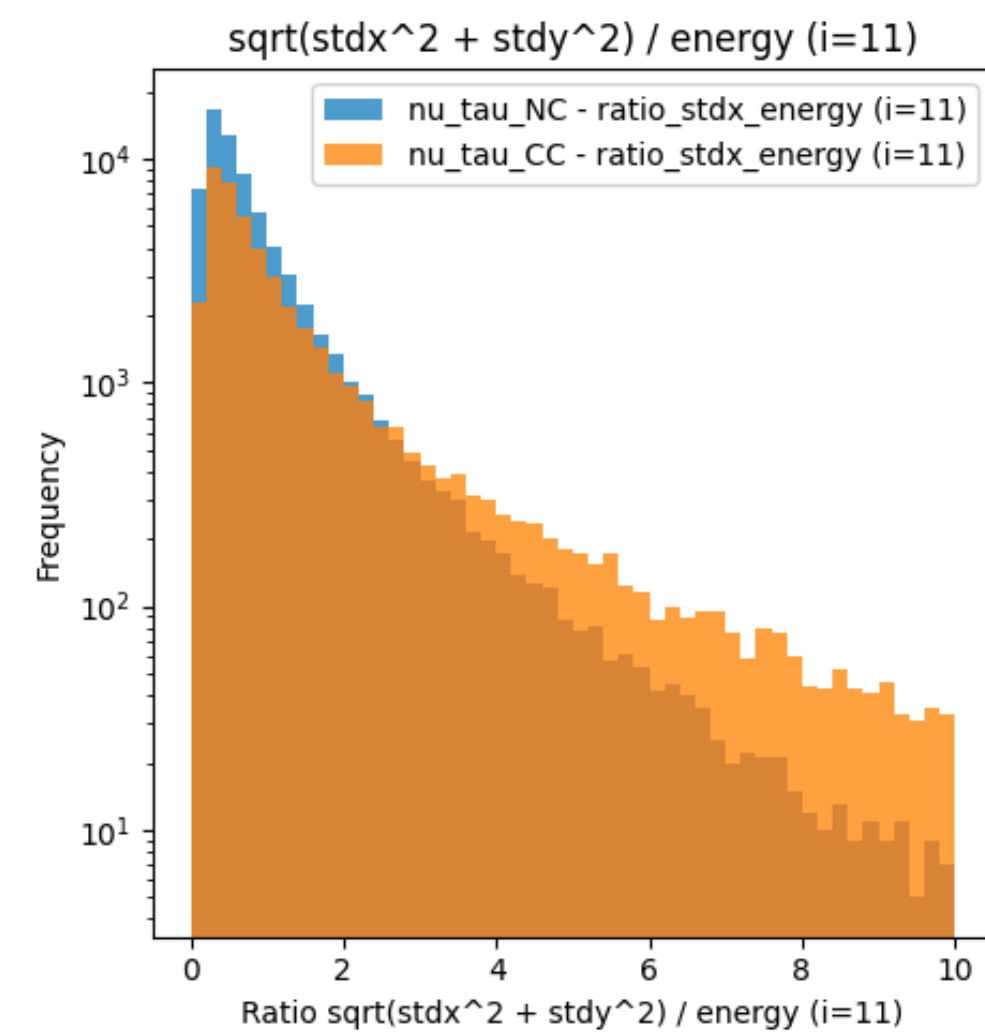
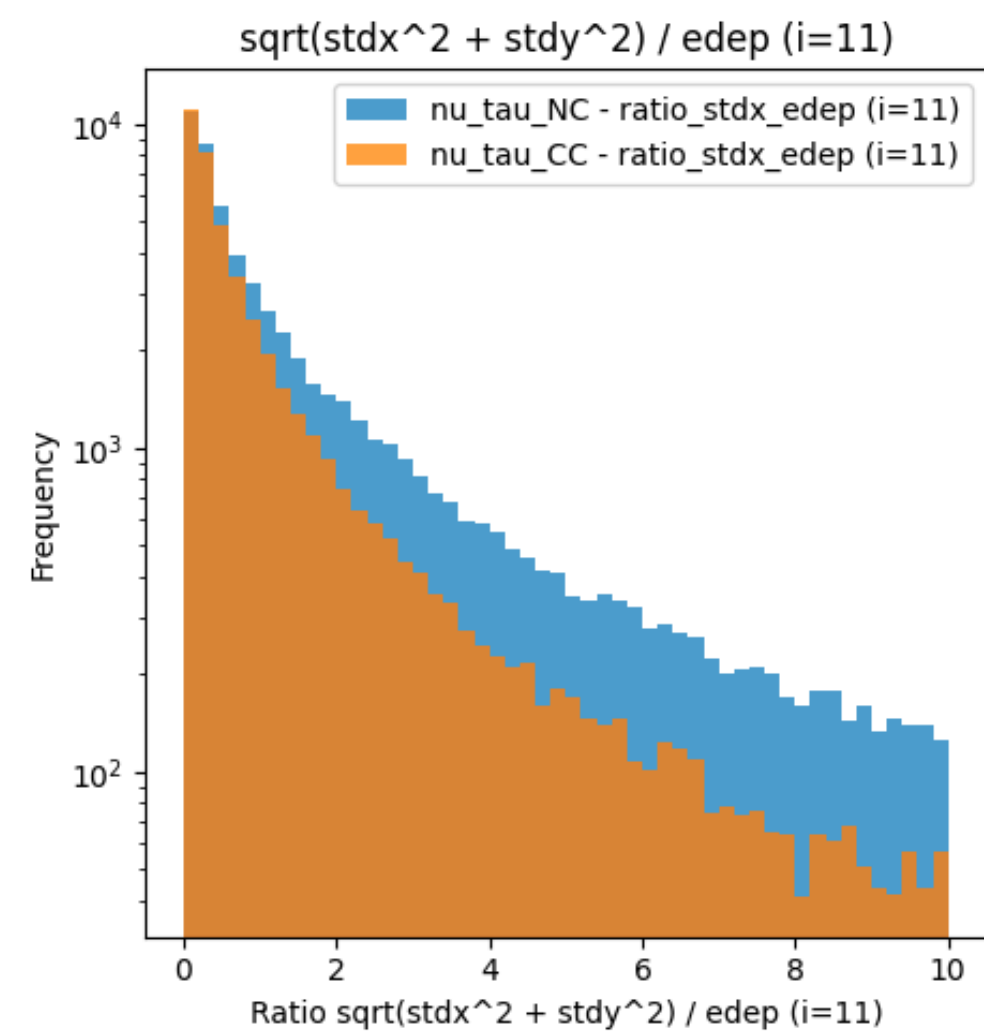
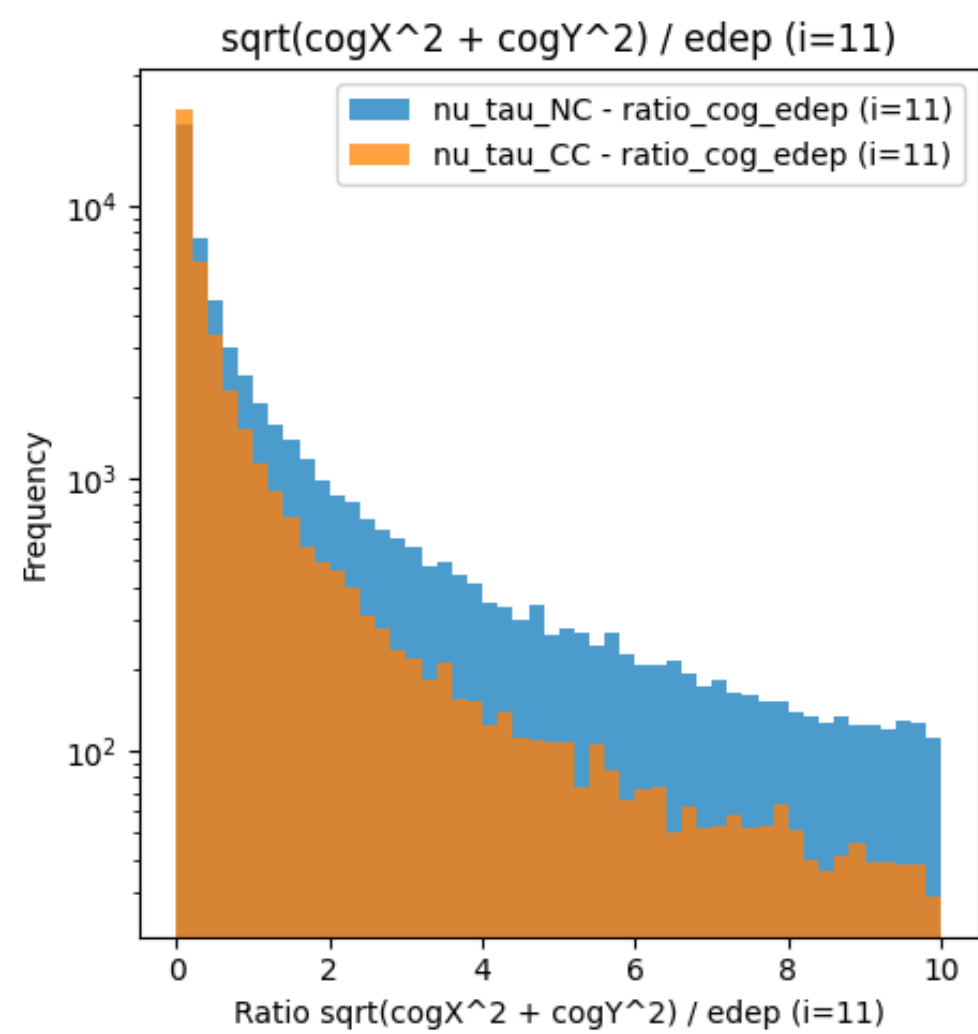
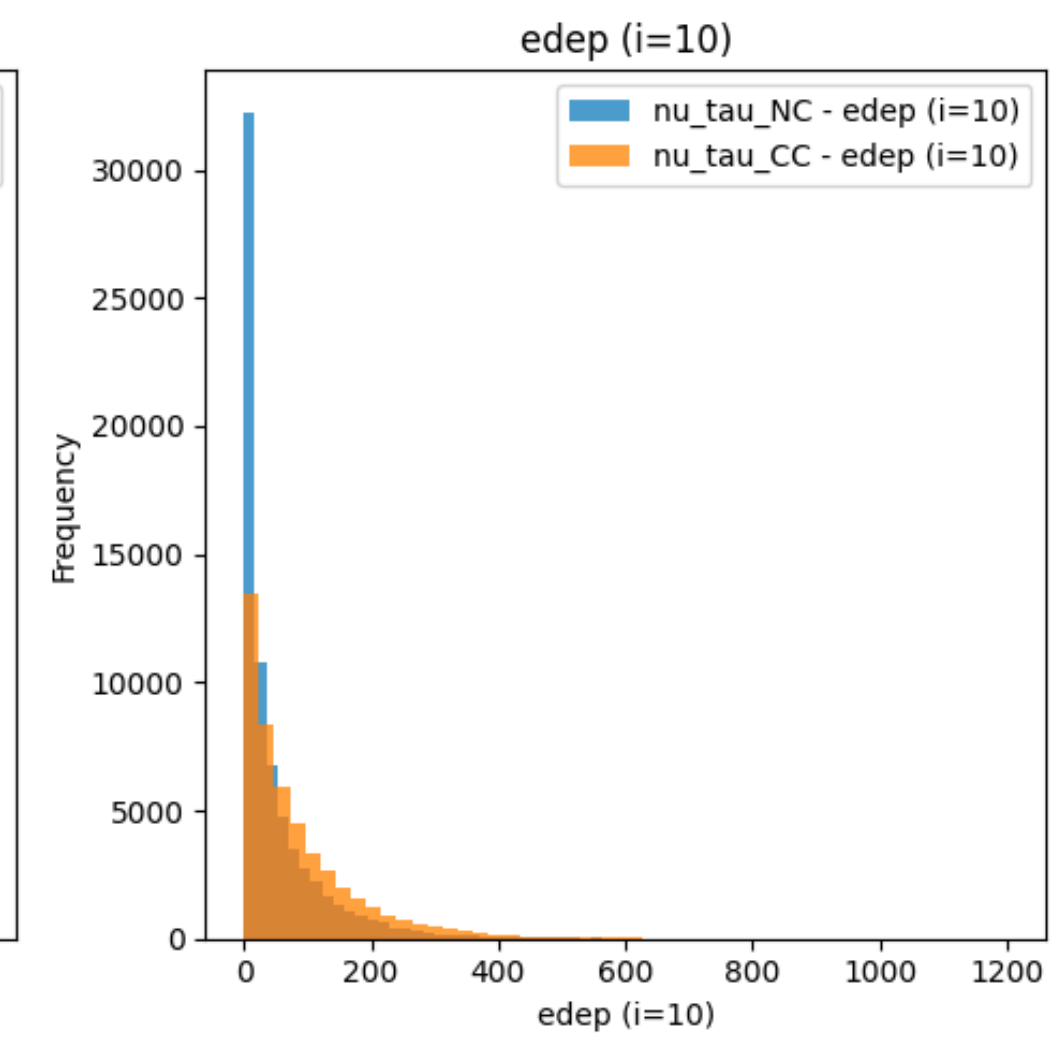
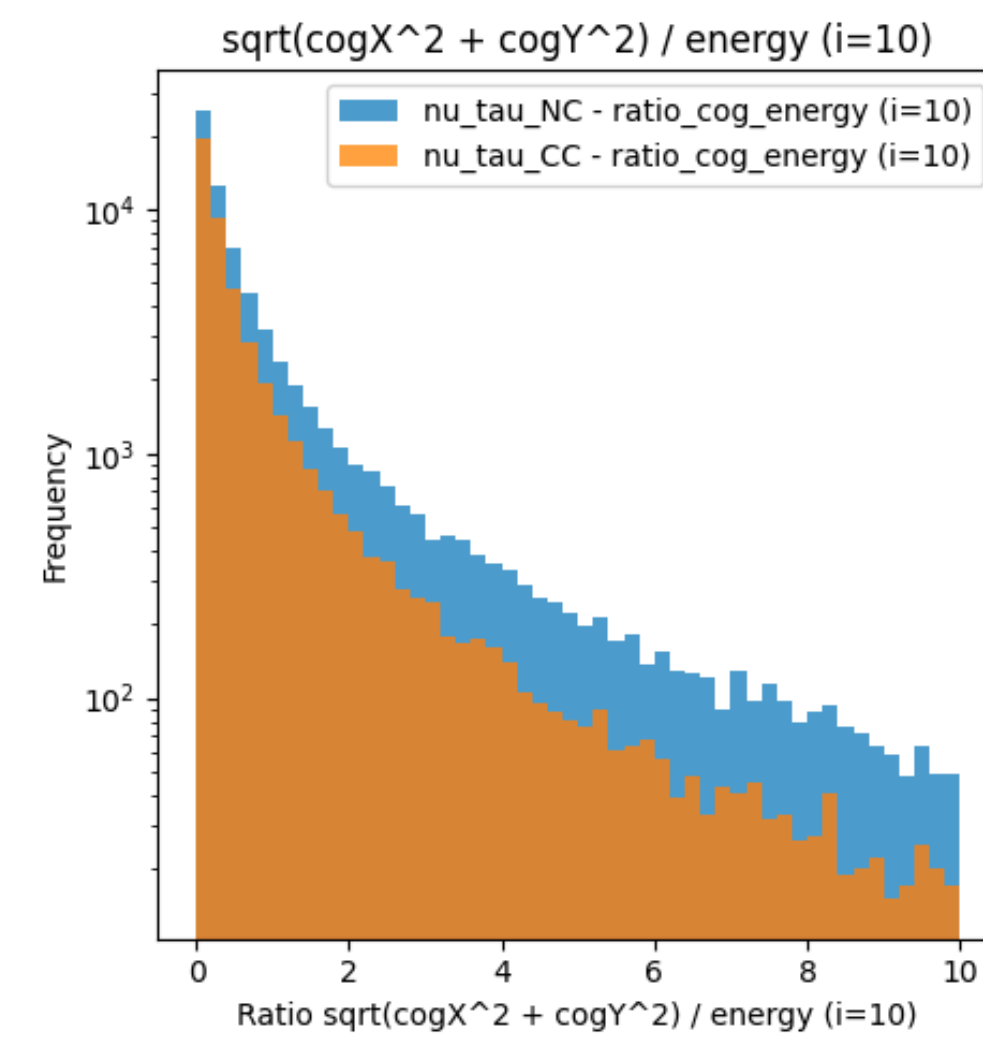
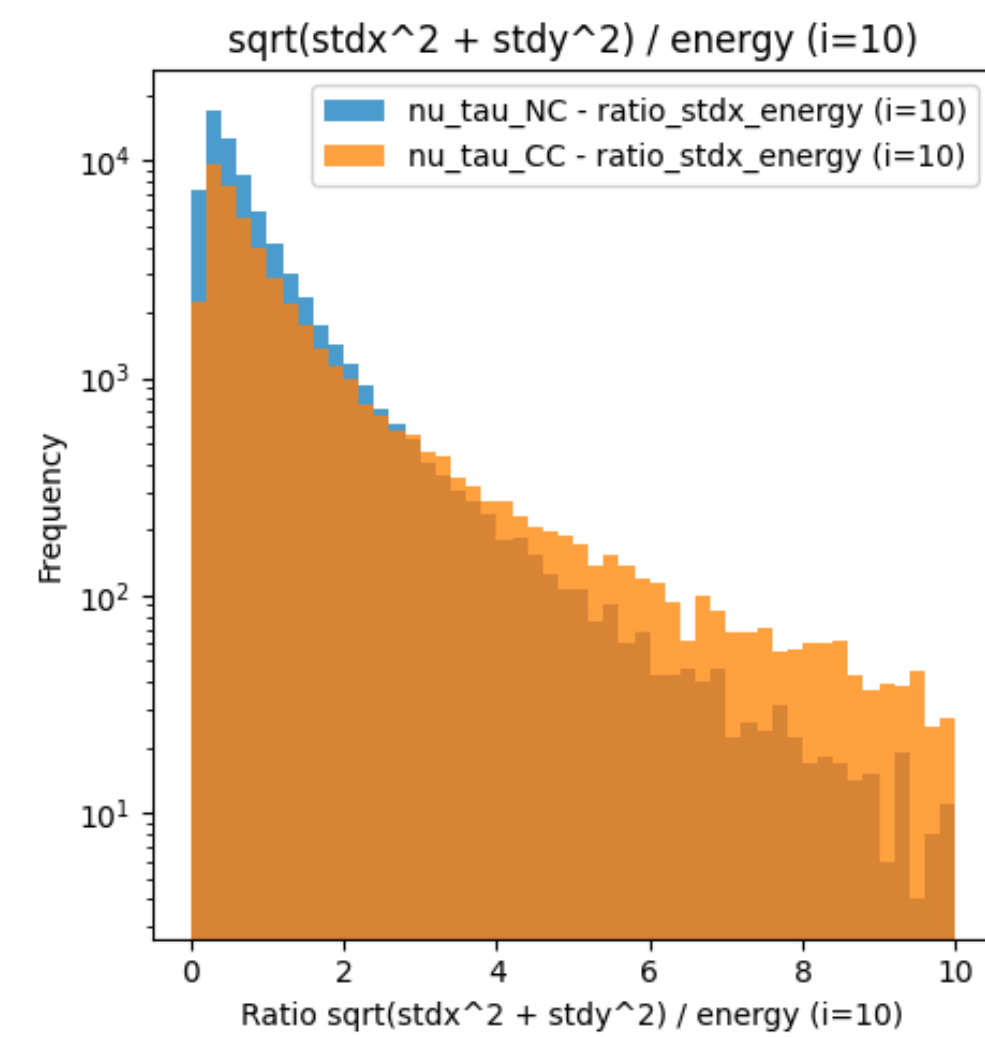
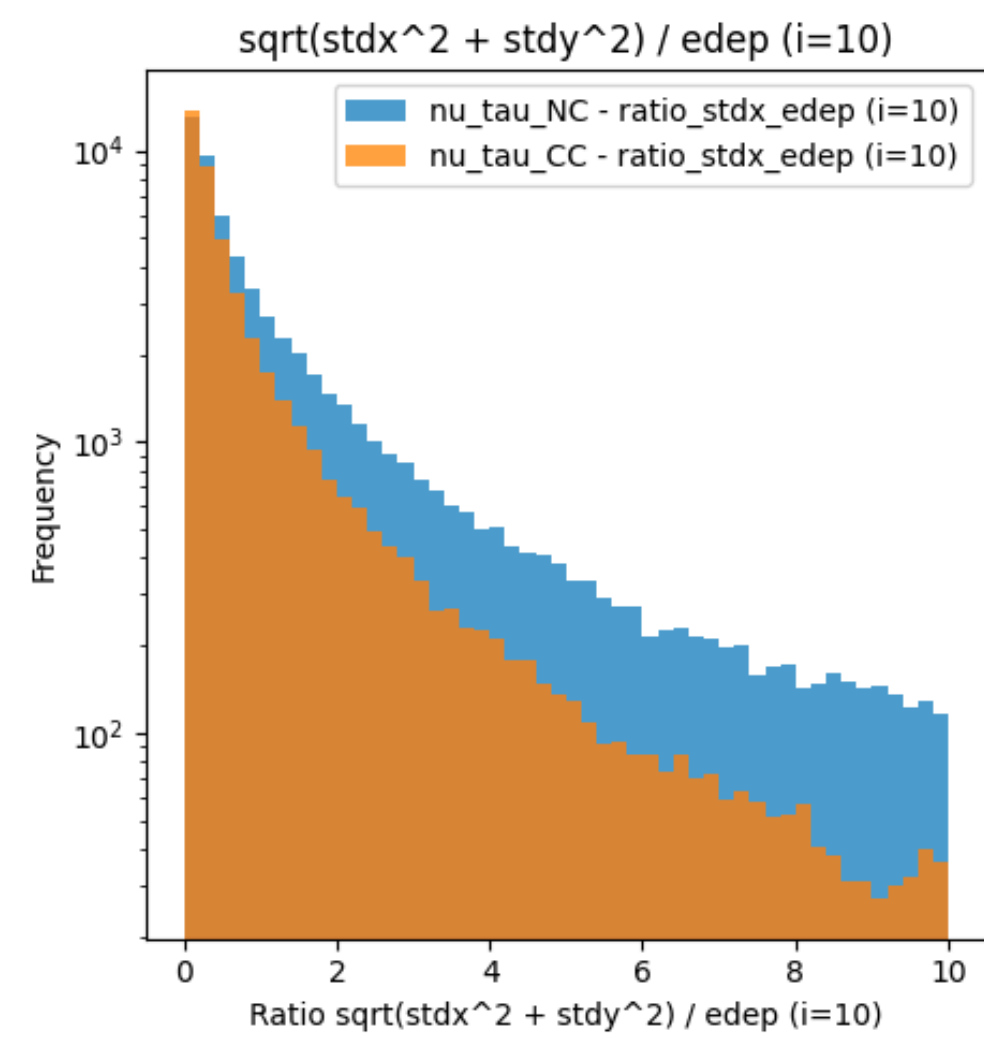
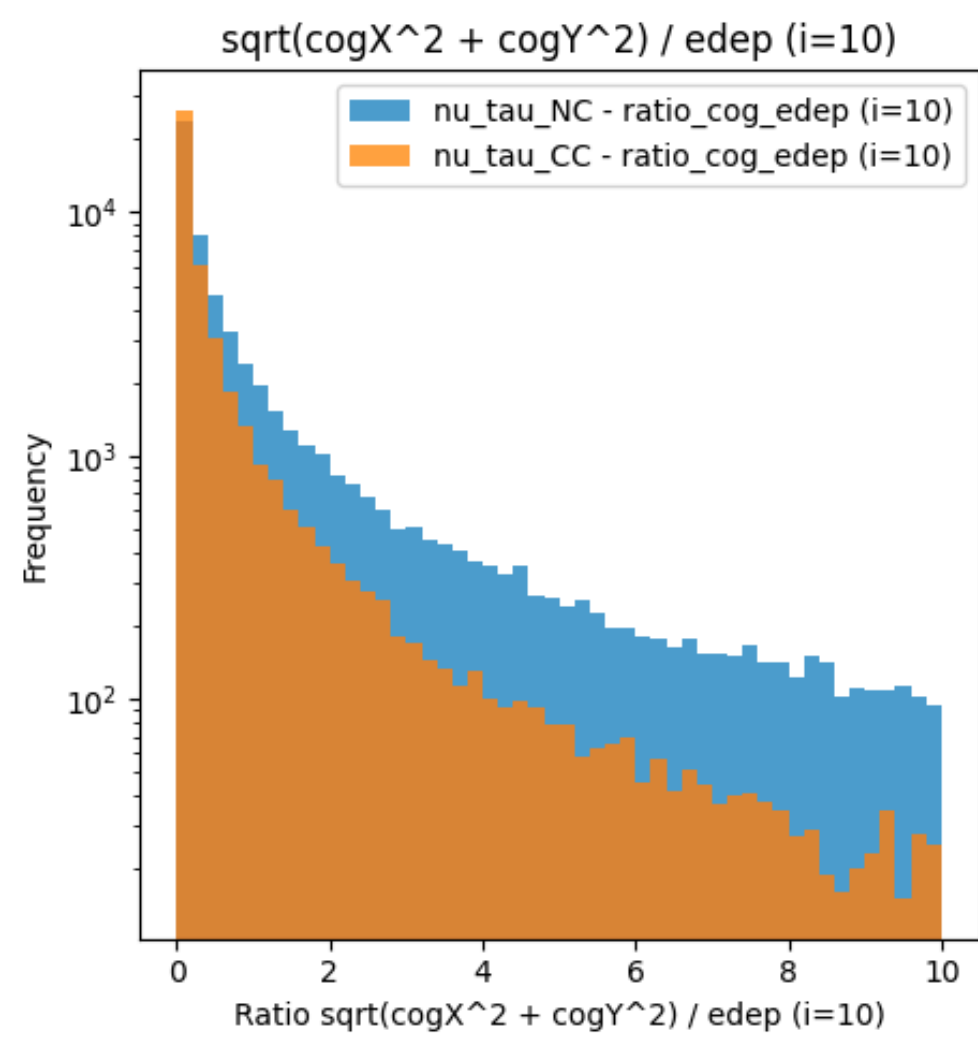


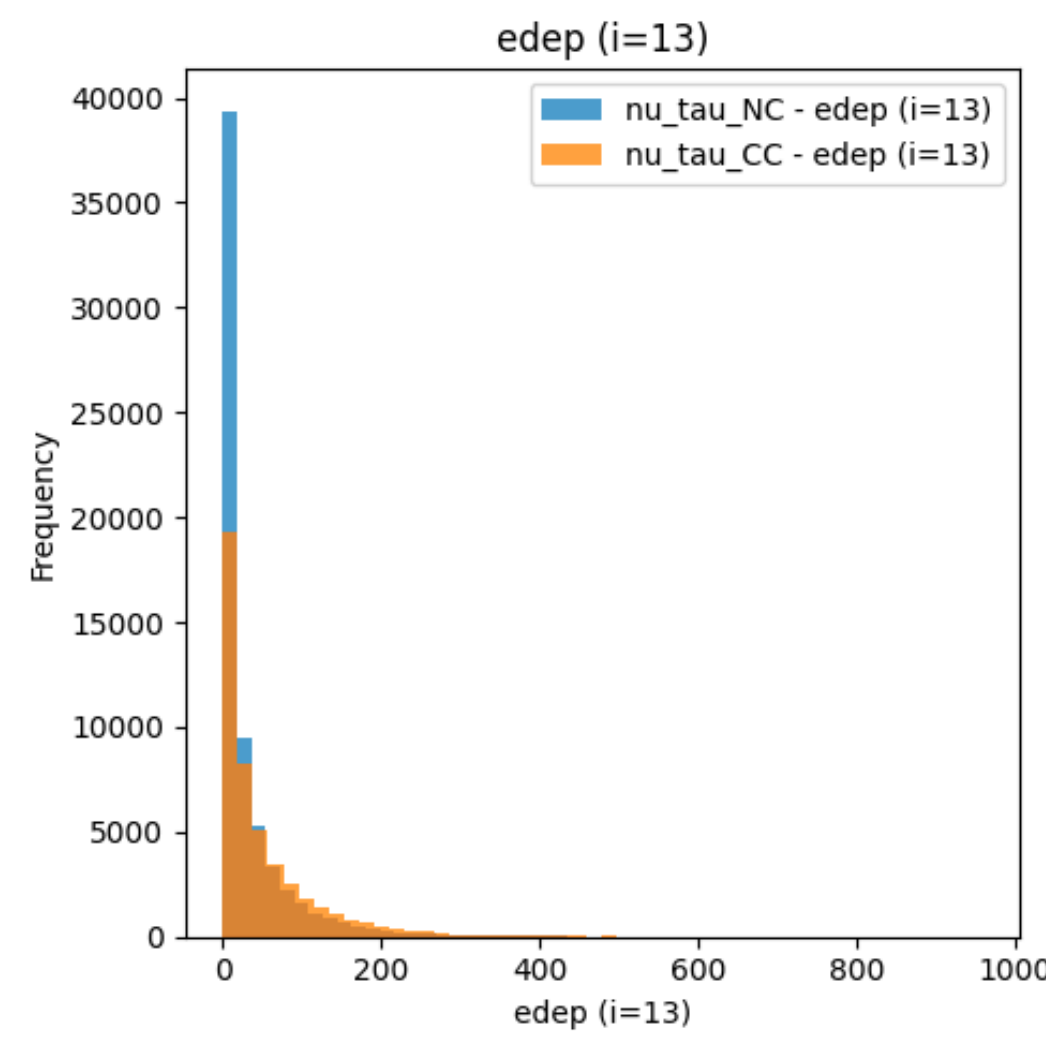
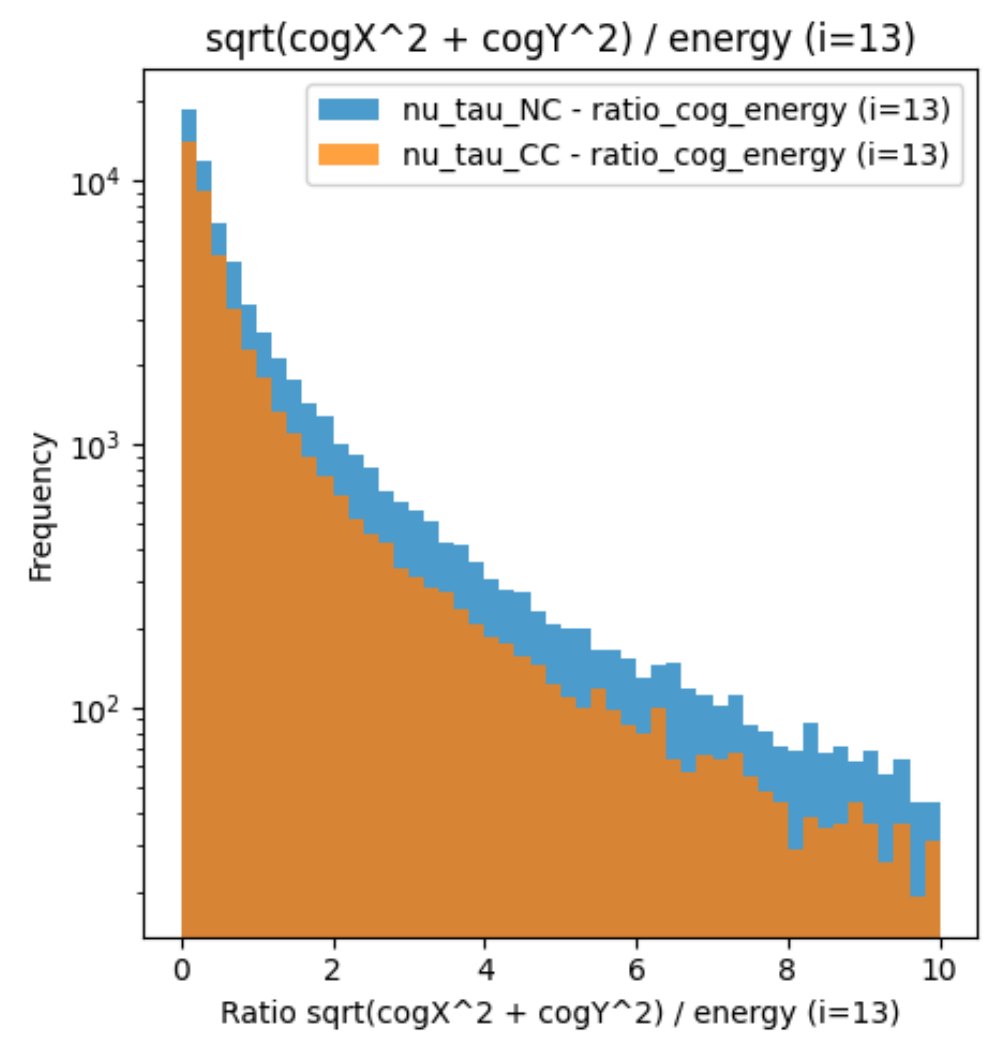
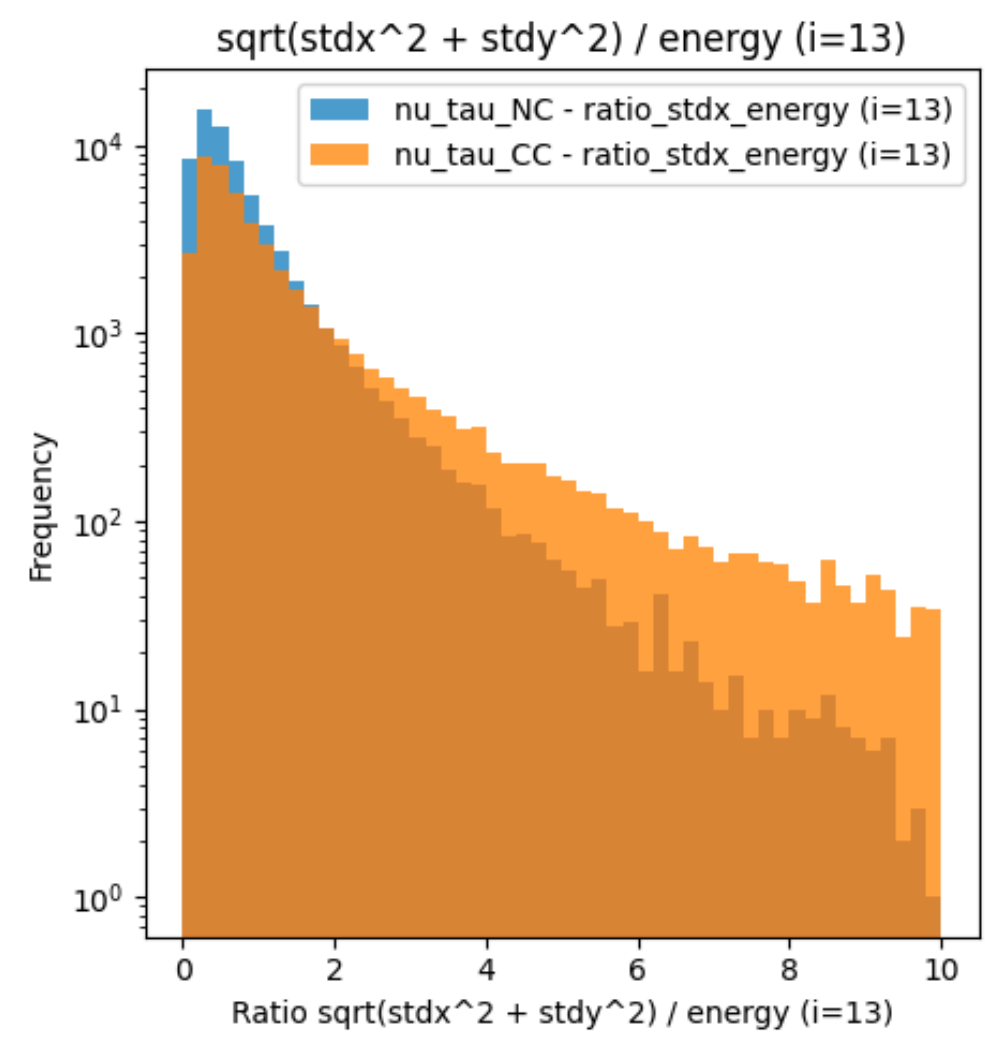
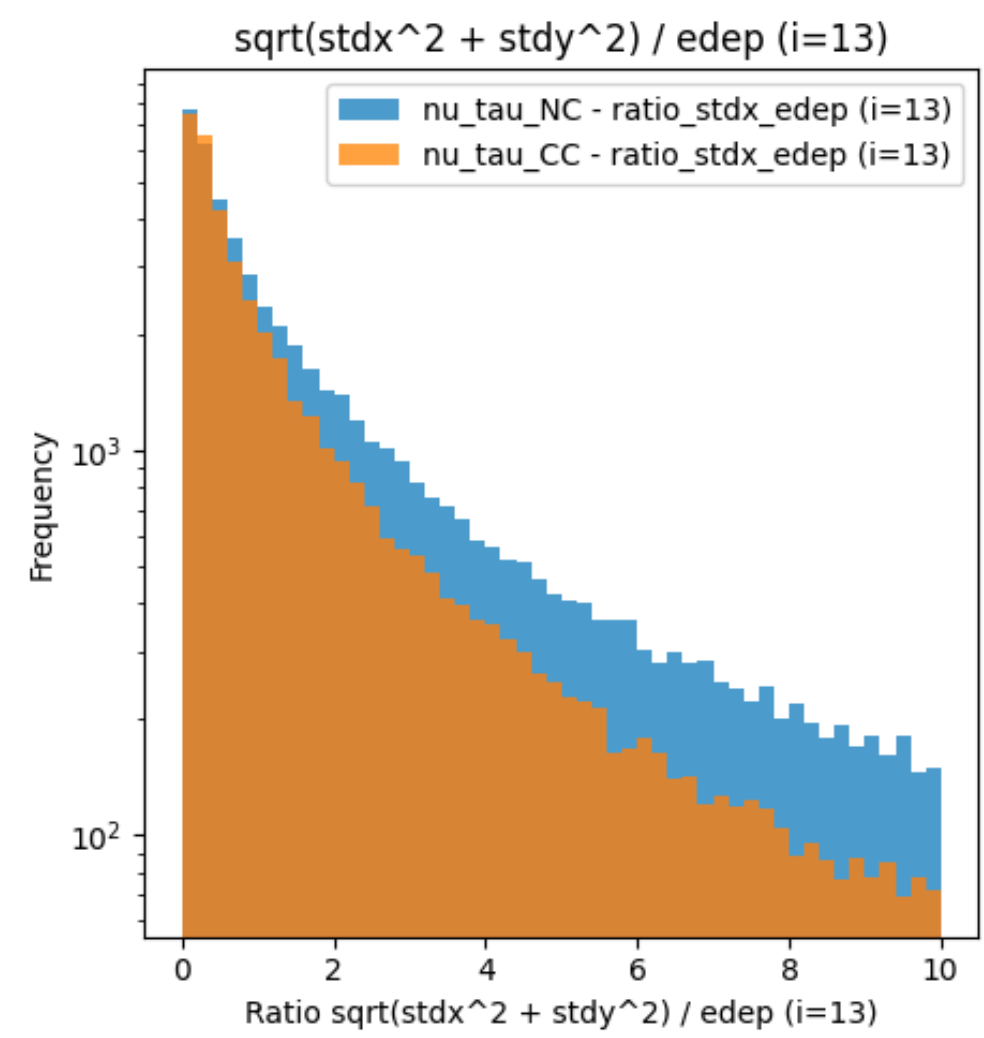
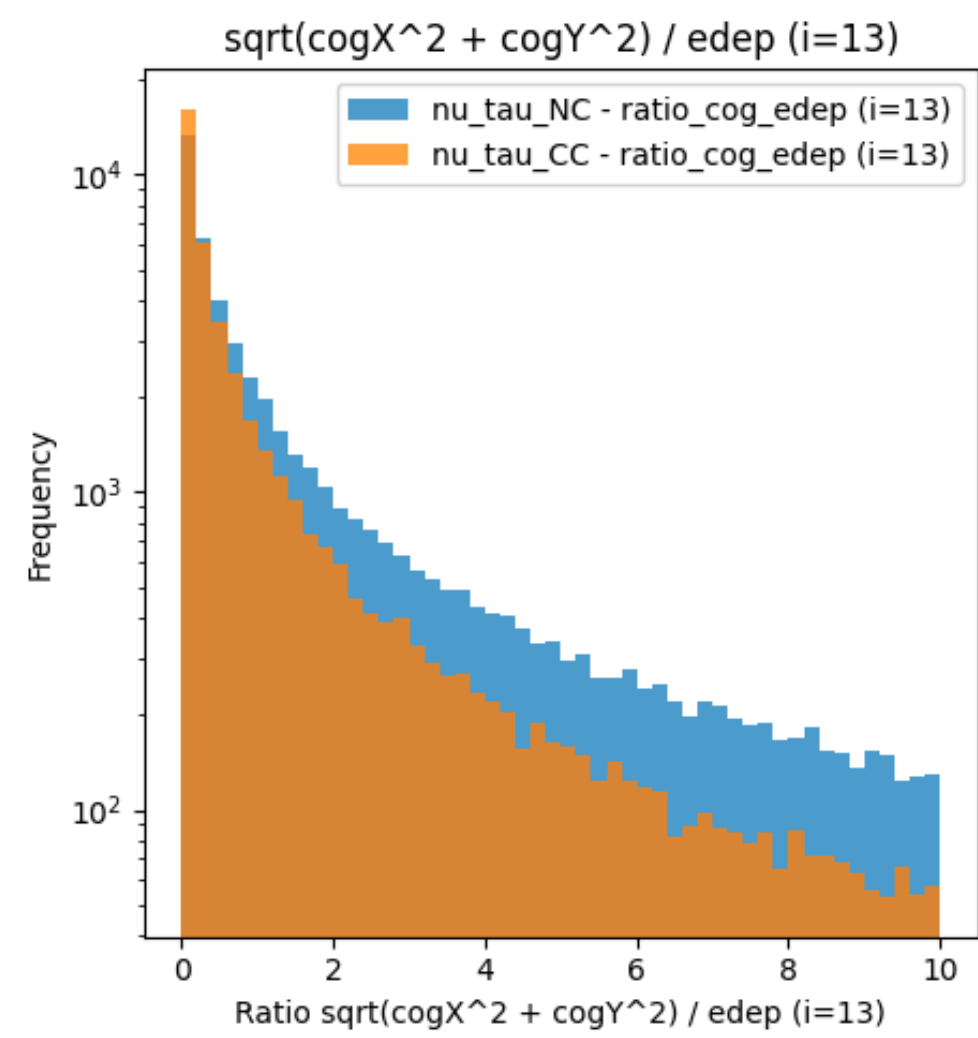
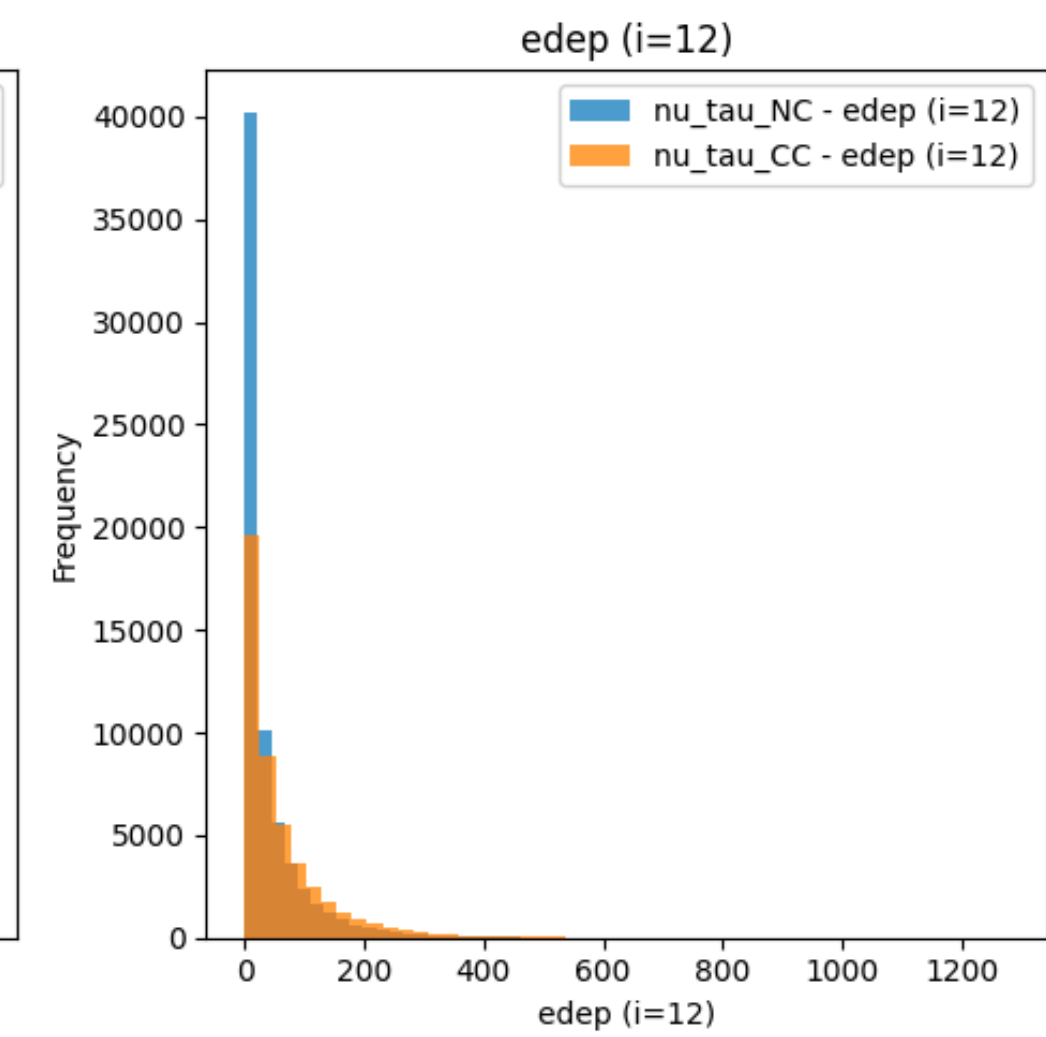
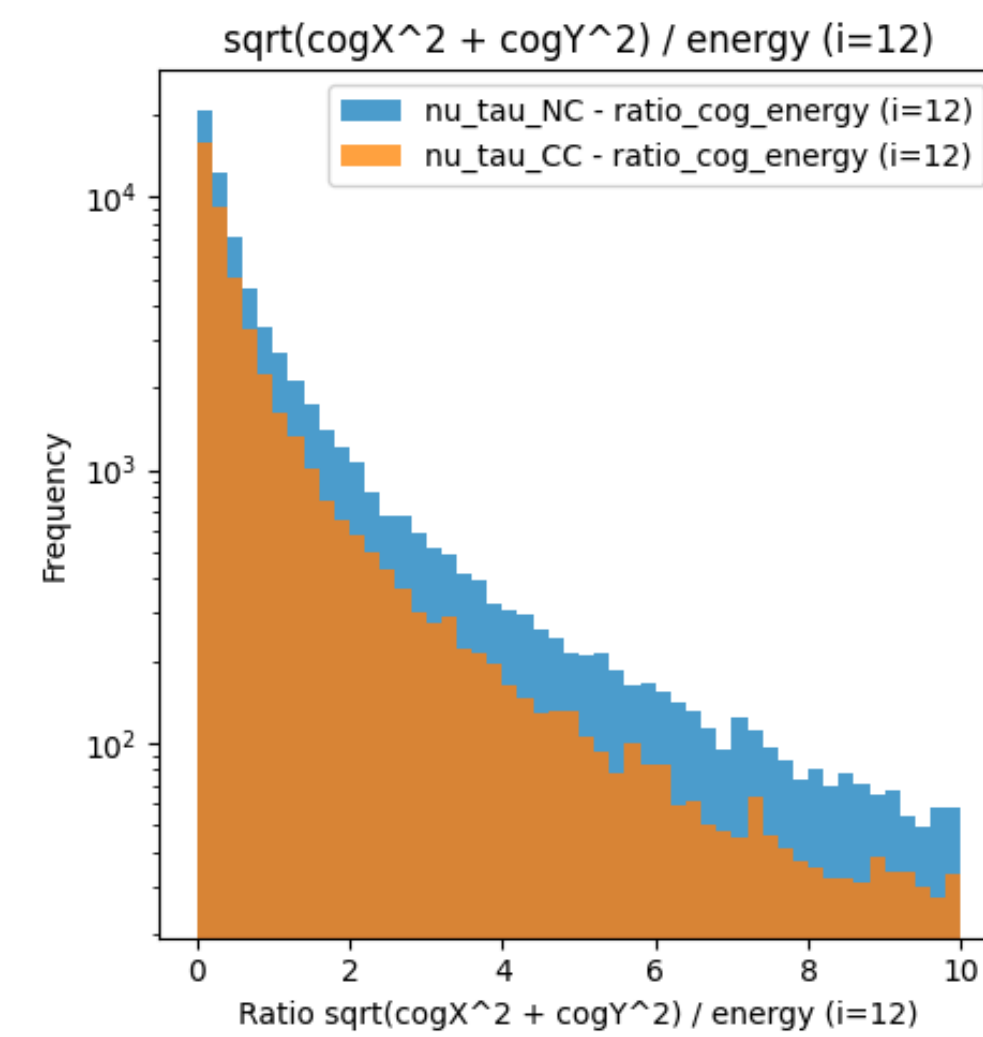
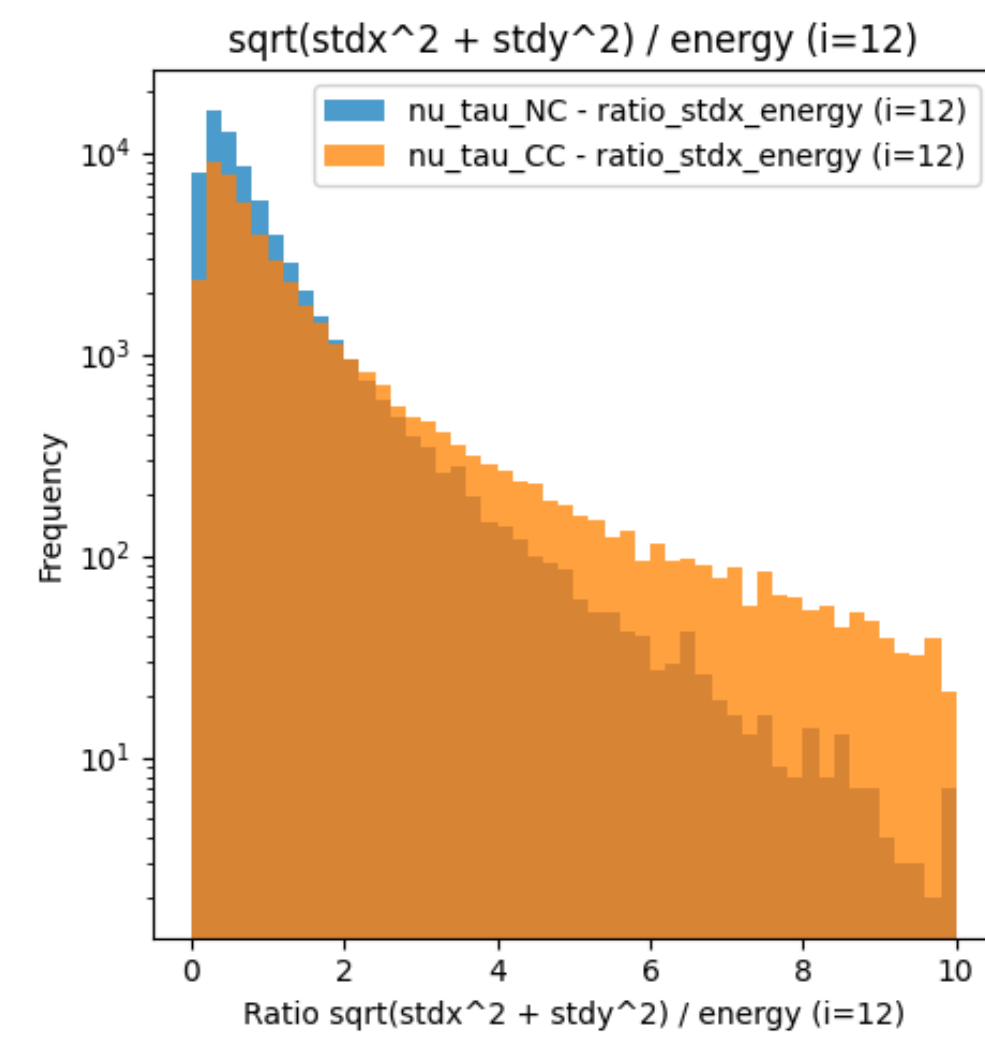
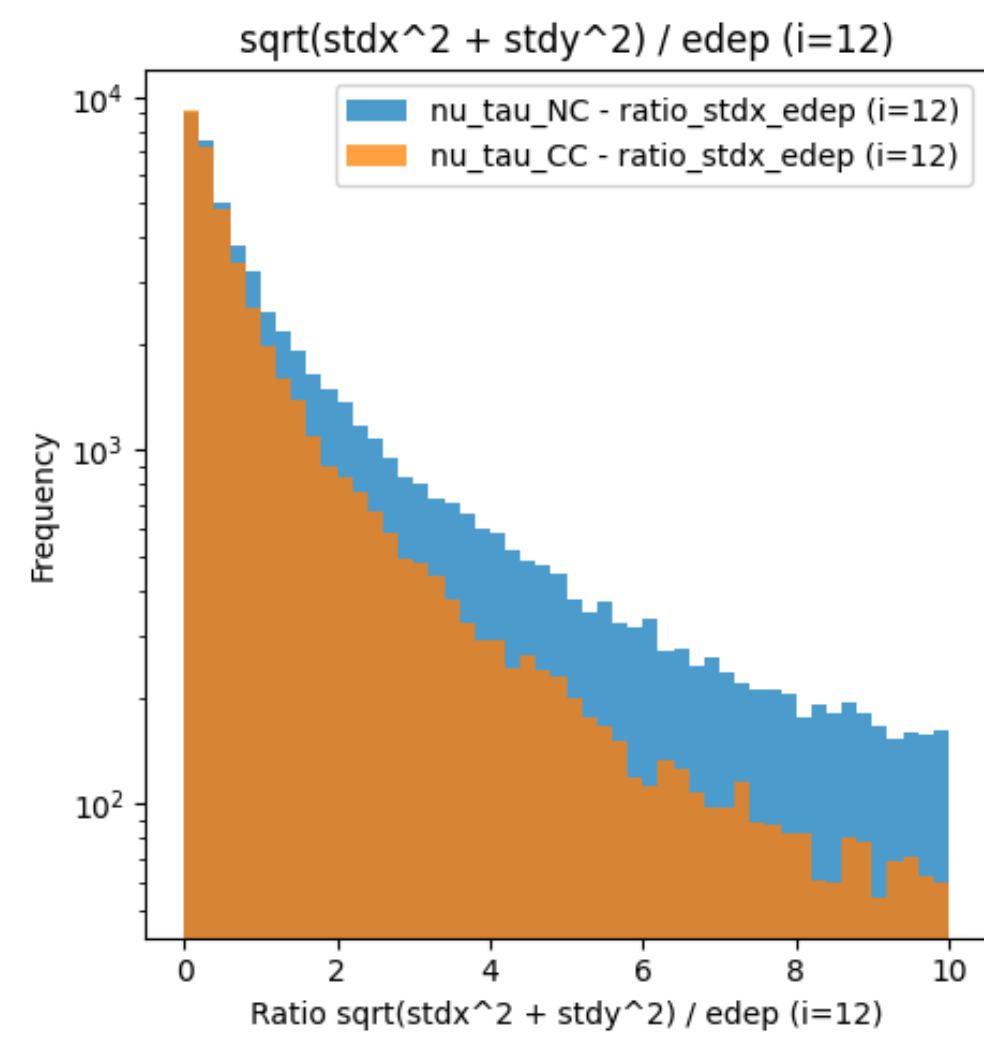
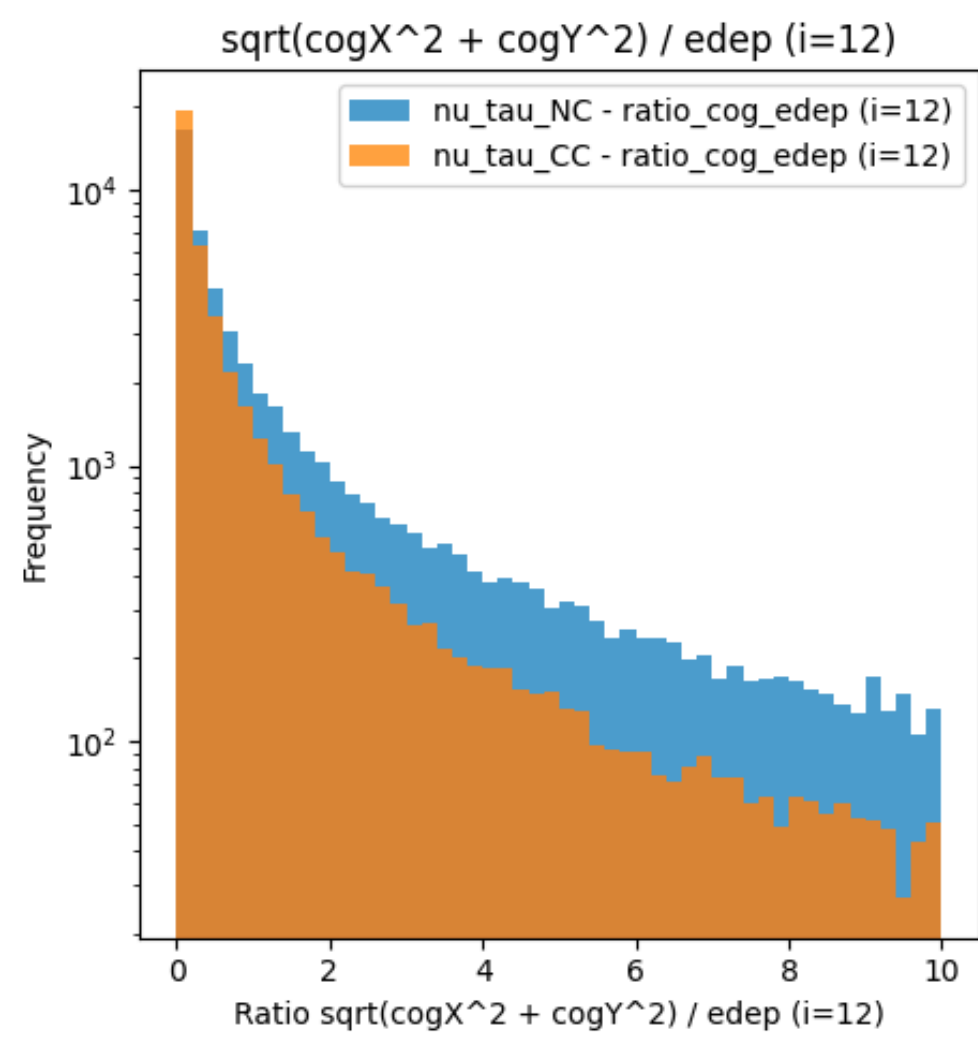


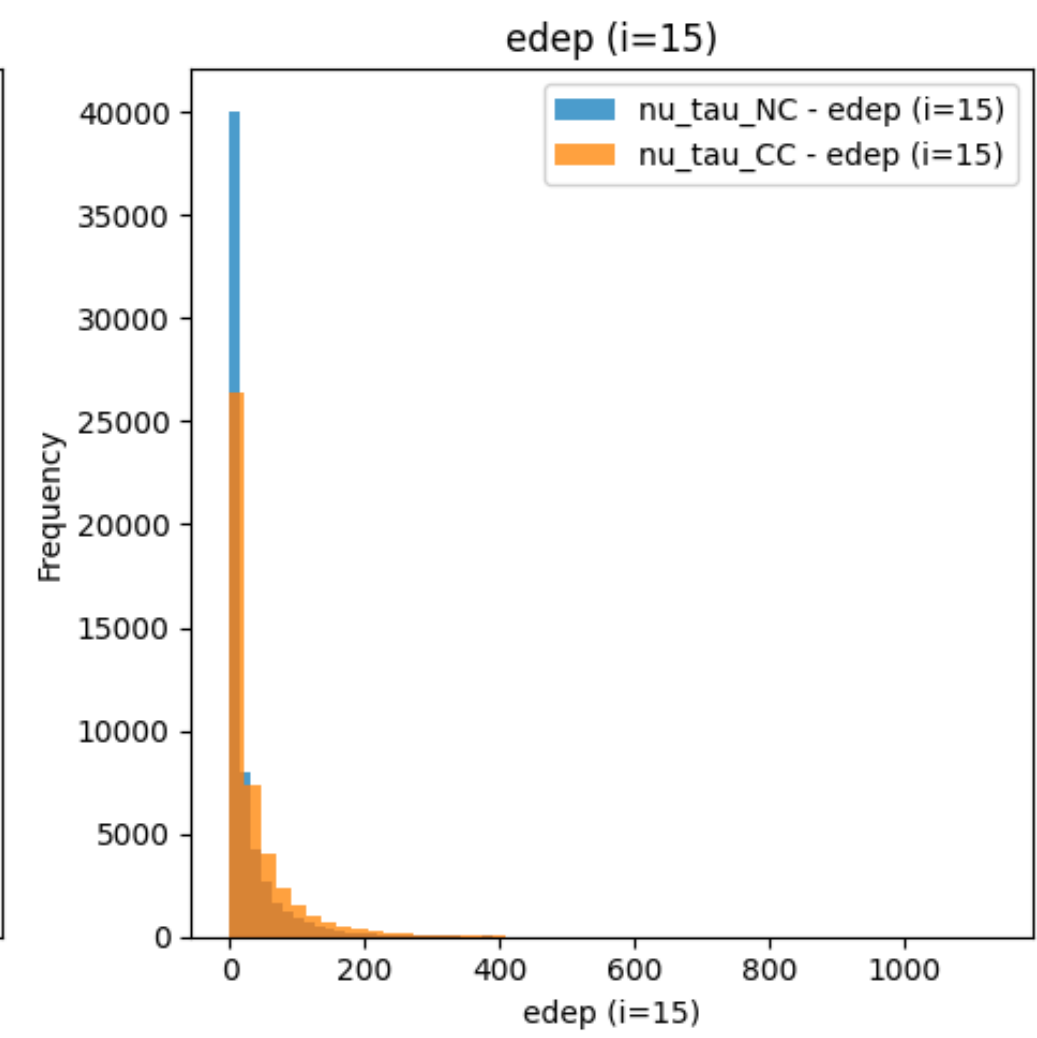
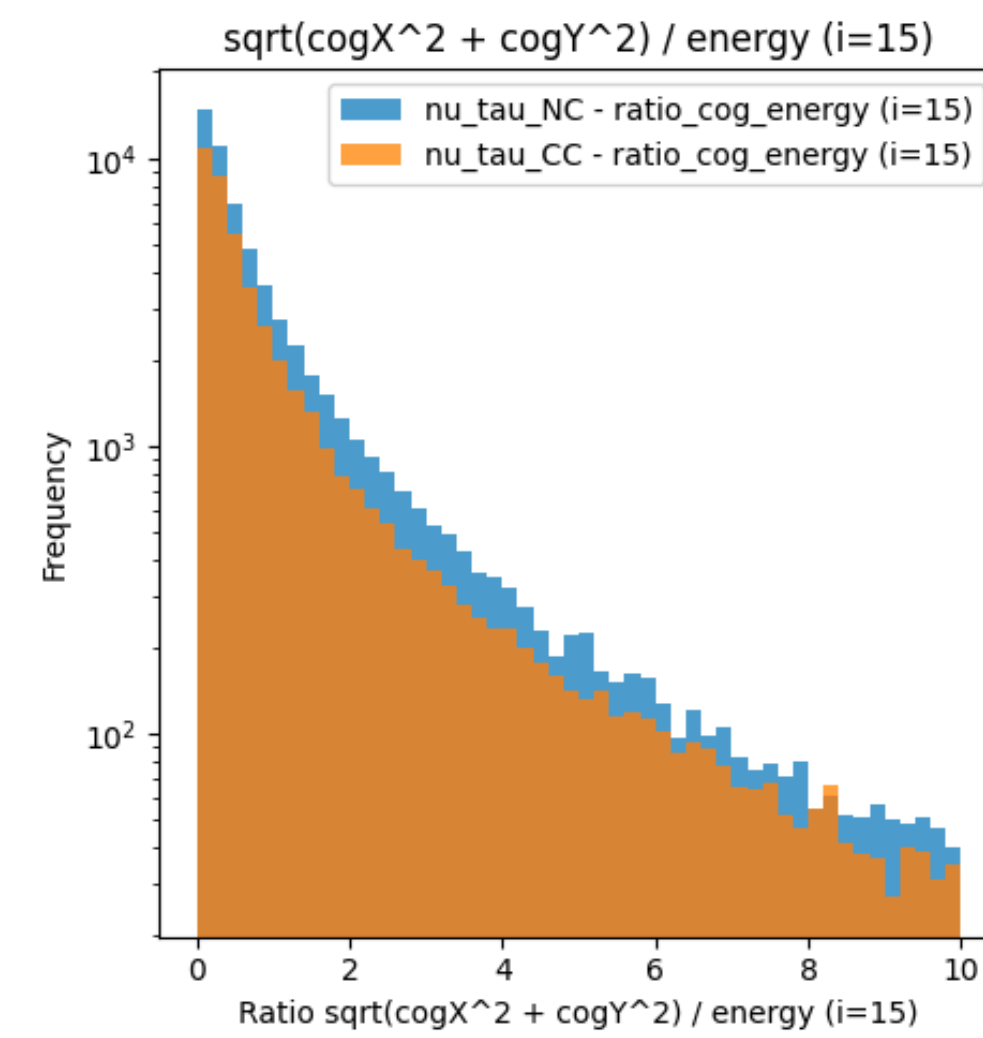
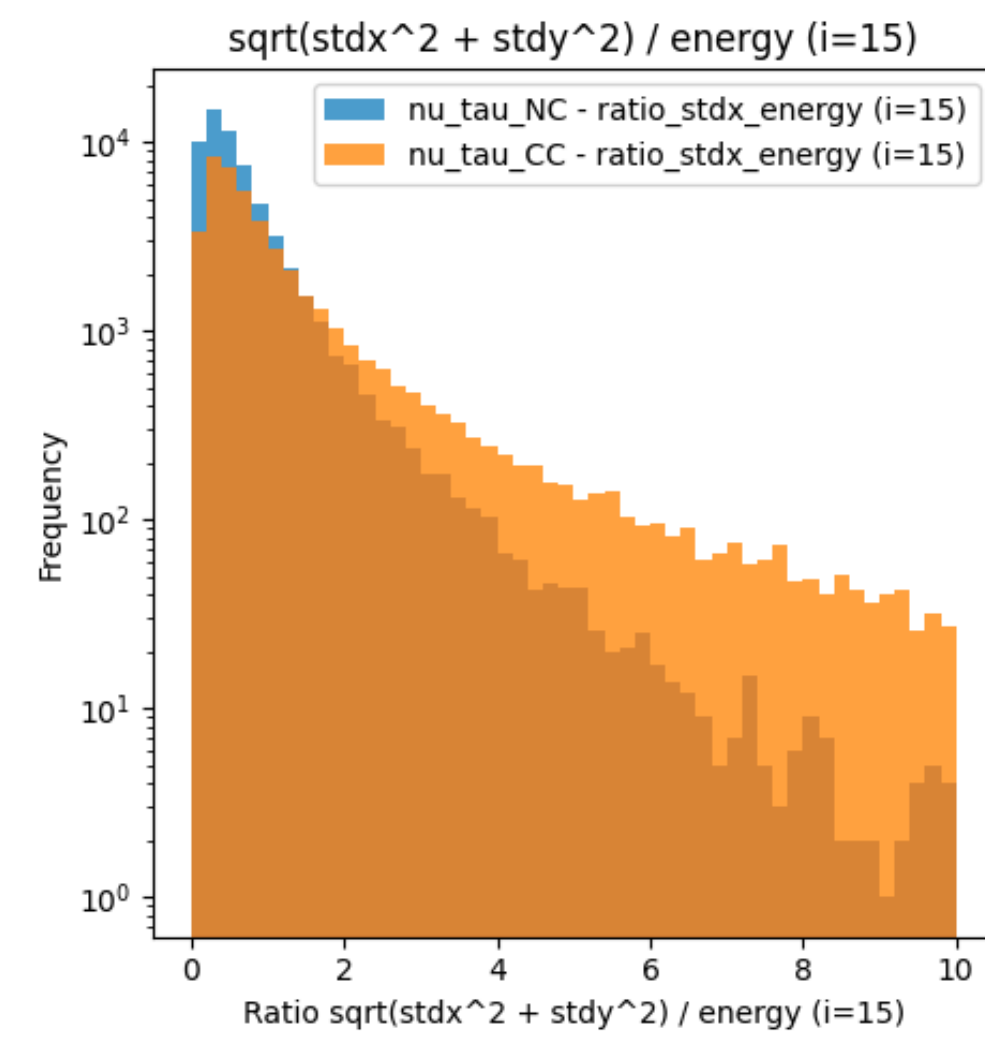
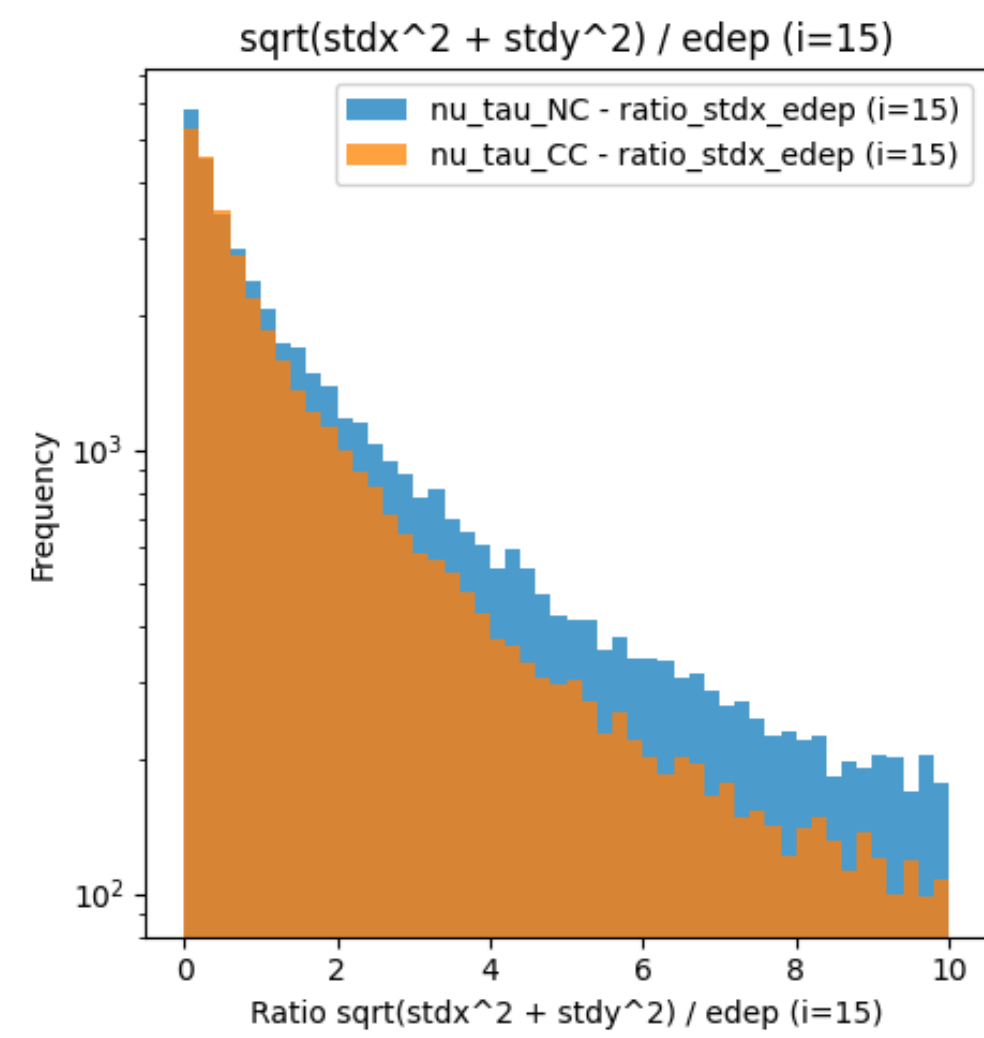
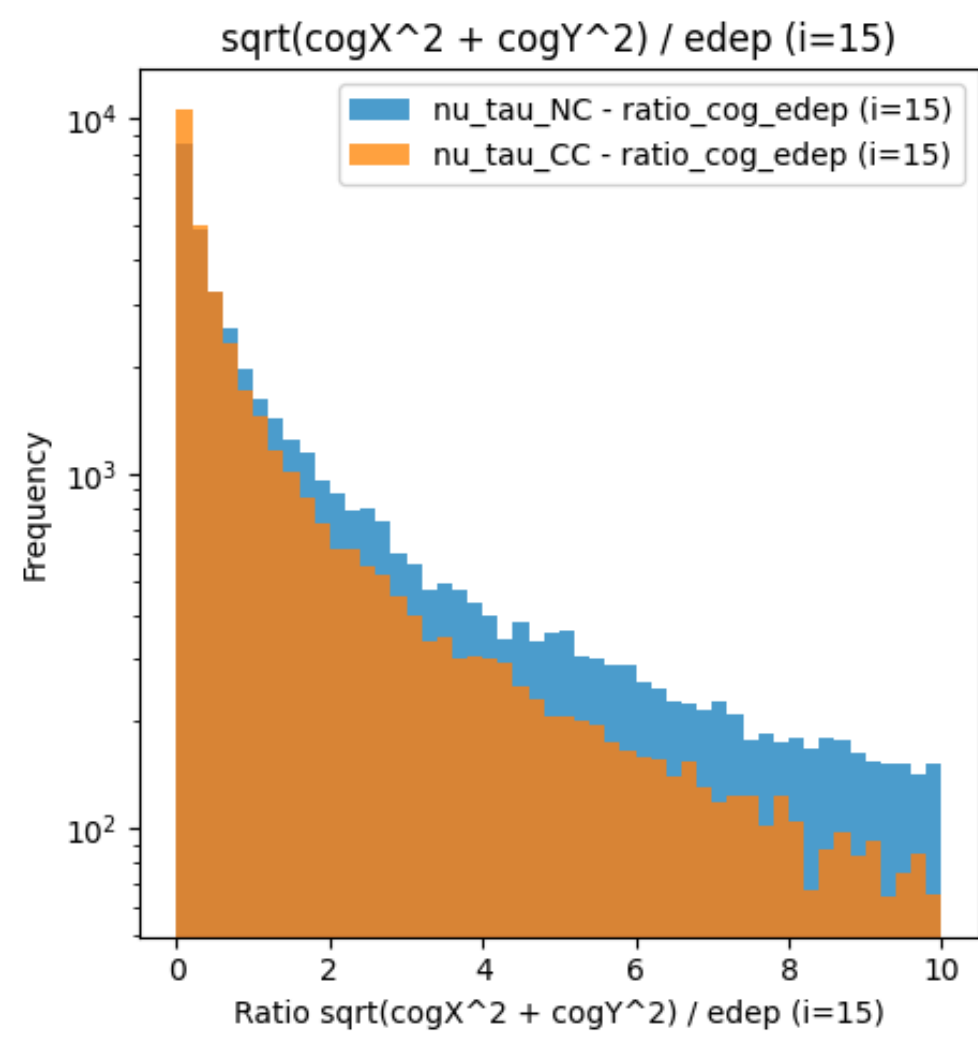
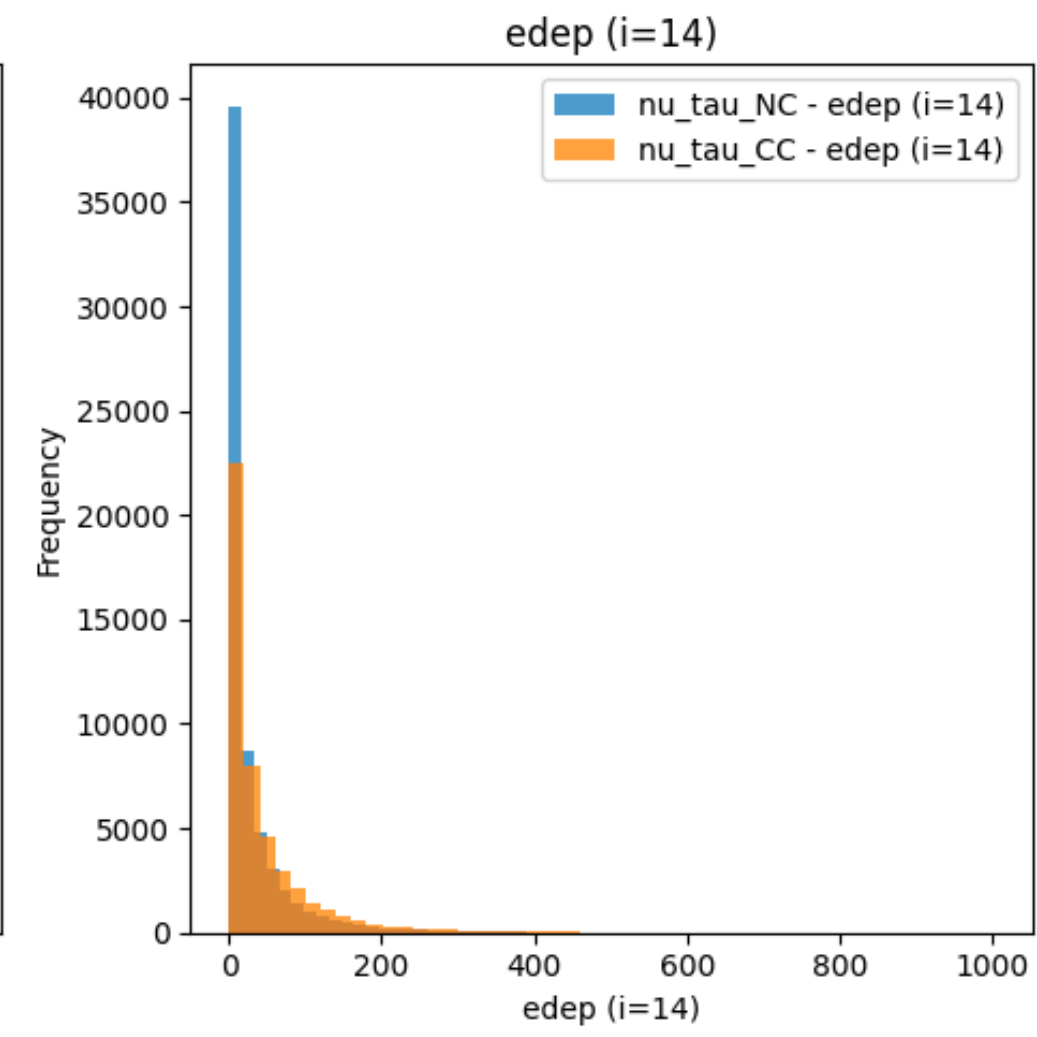
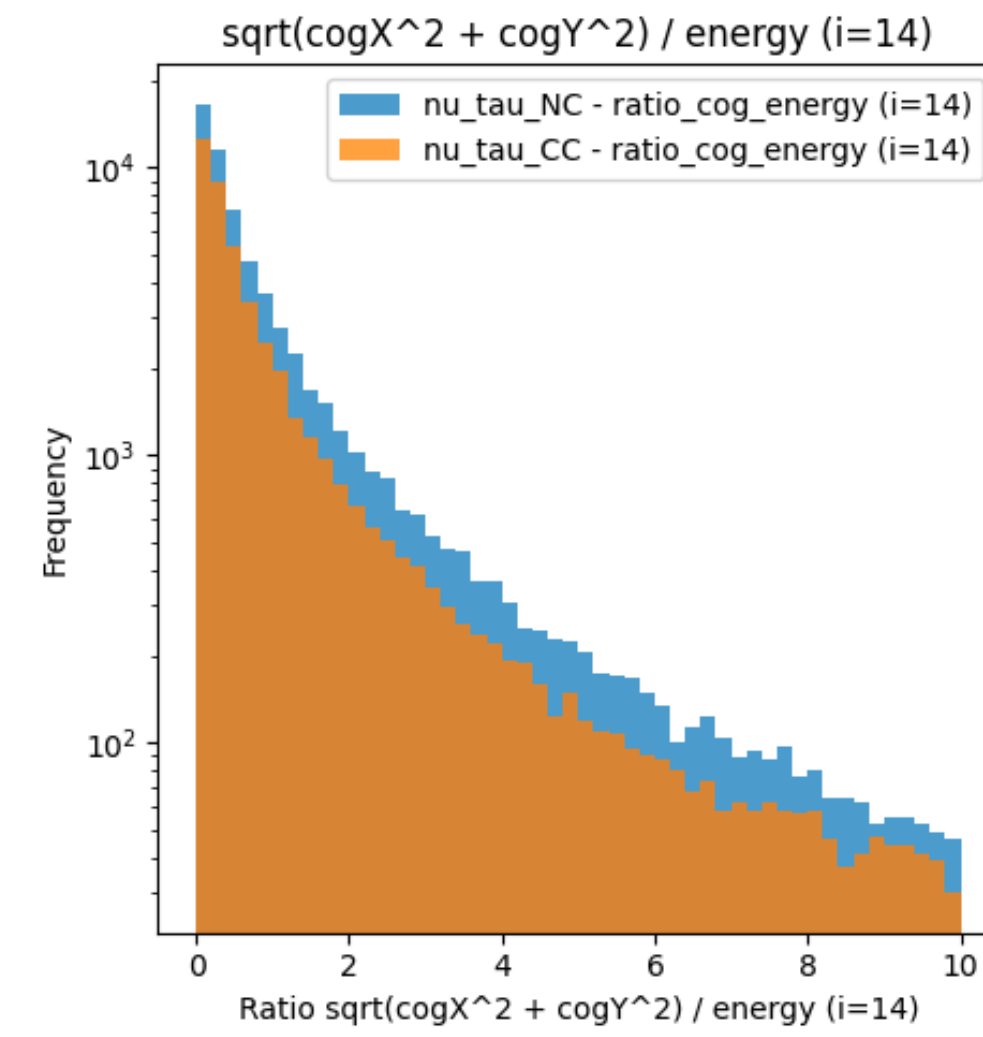
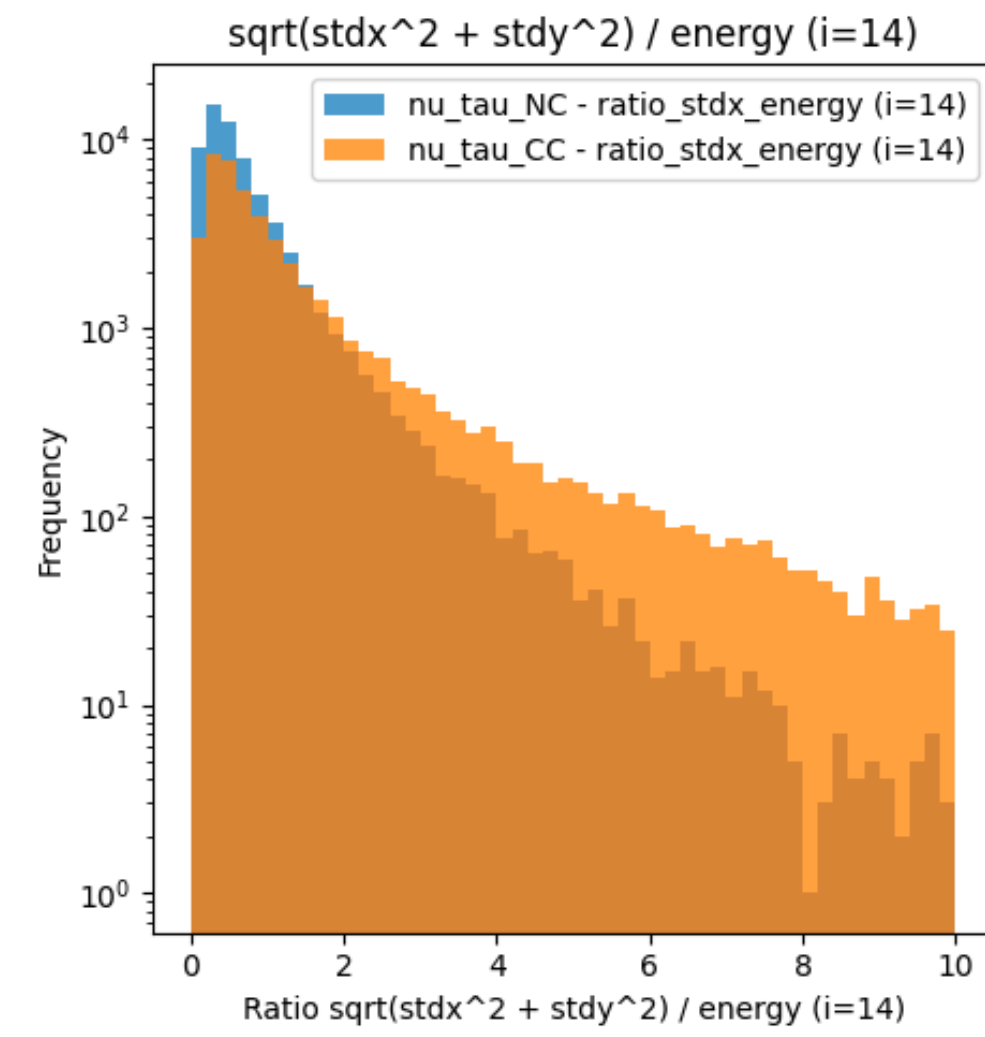
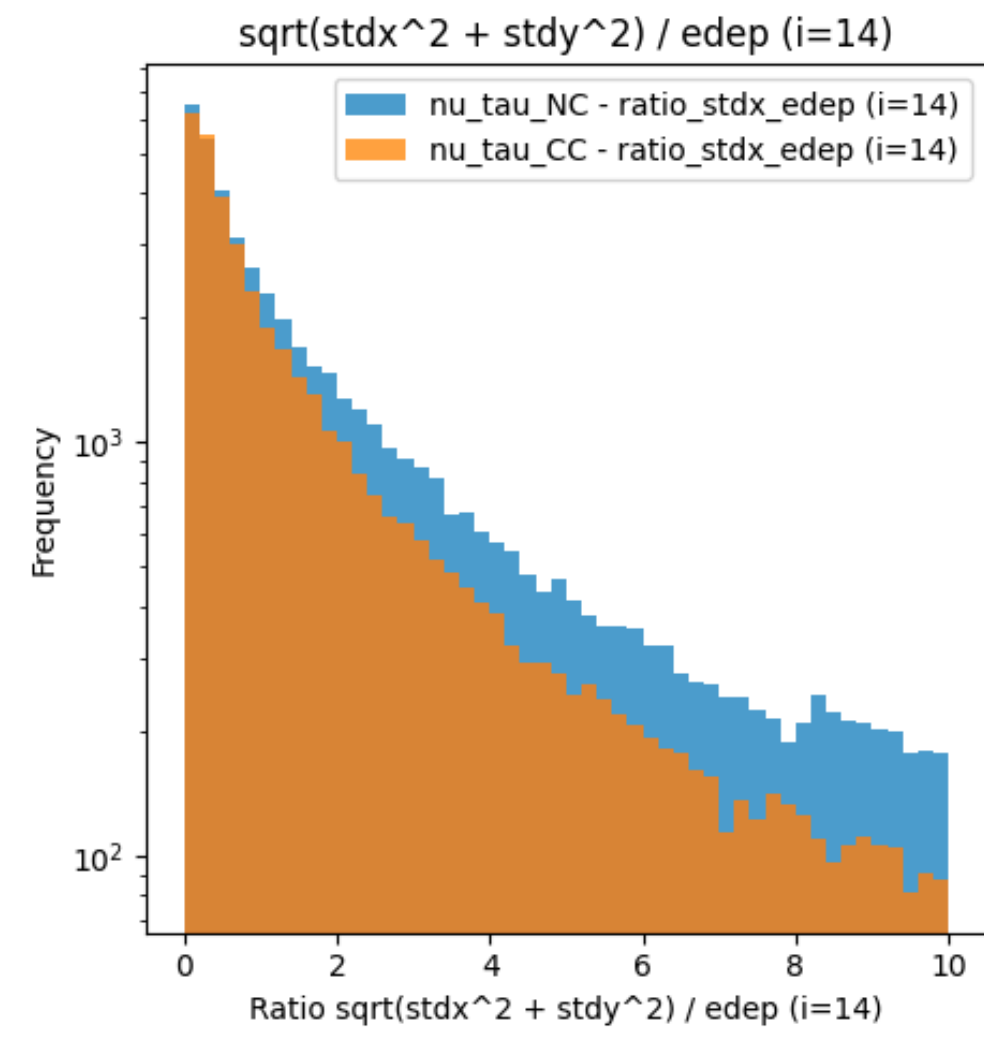
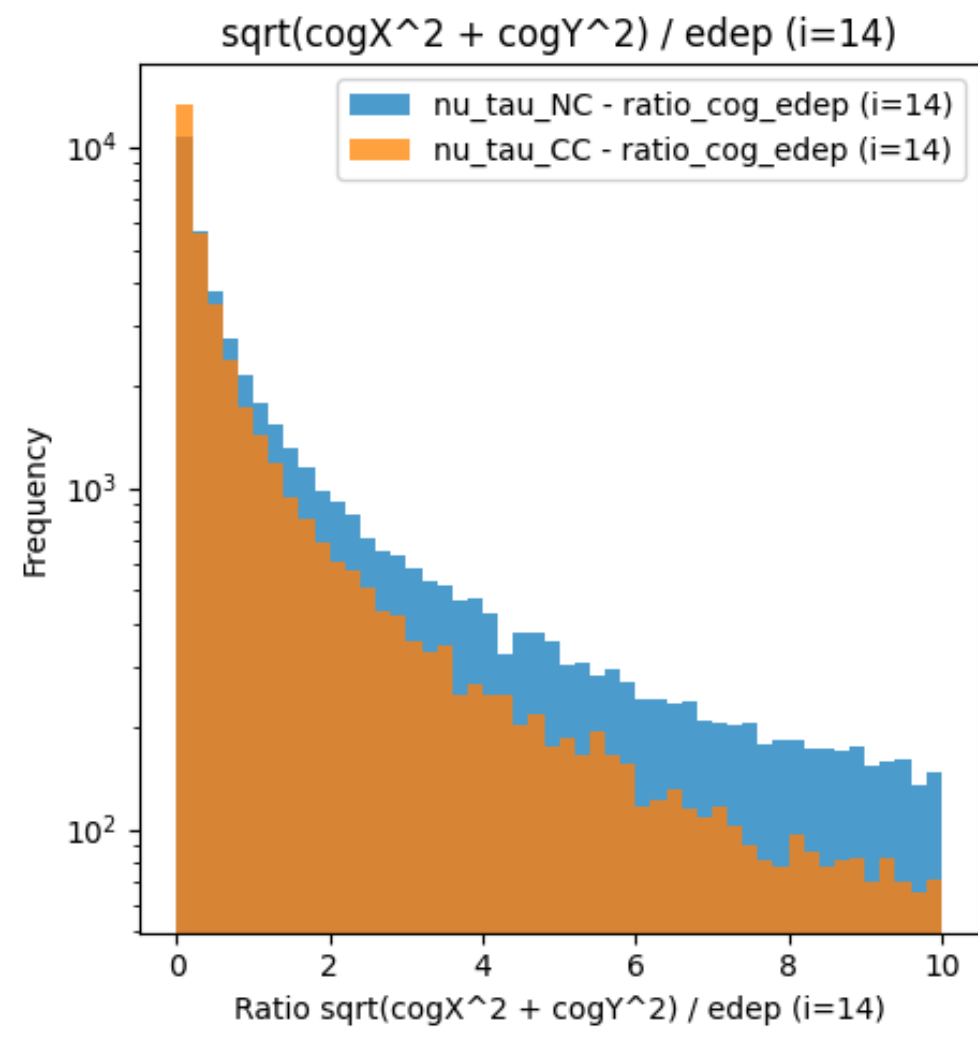












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