

**LArDRIP**  
LArTPC Dead Region Inference Project

# LArDRIP

**The Liquid Argon TPC Dead Region Inference Project:**

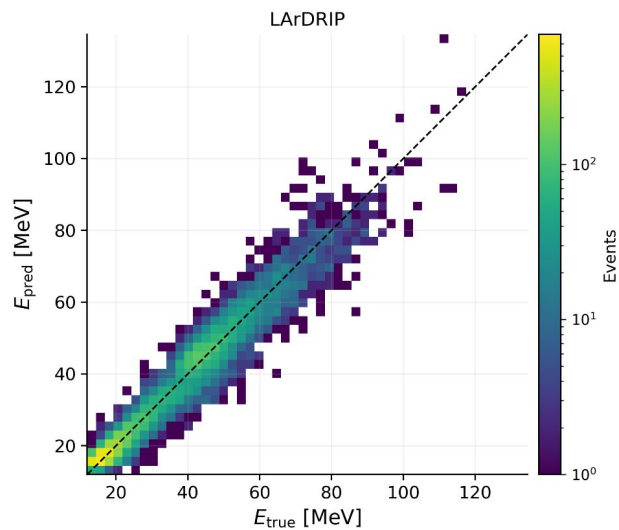
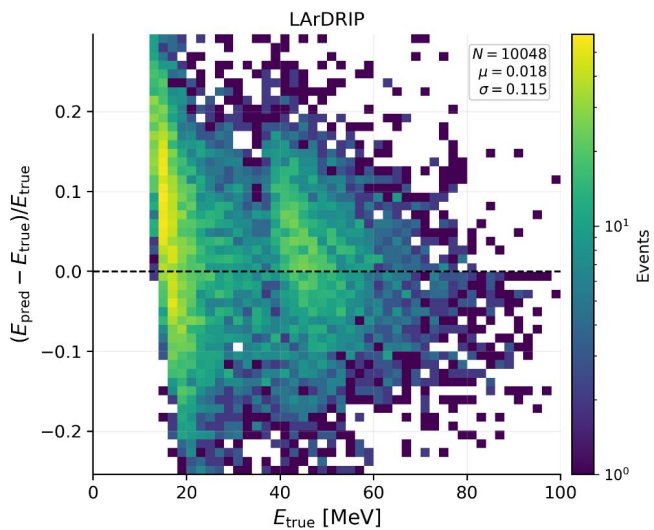
**ML Track Inference Between DUNE's Near Detector Prototype Modules**

**Hilary Utaegbulam, on behalf of the DUNE Collaboration**

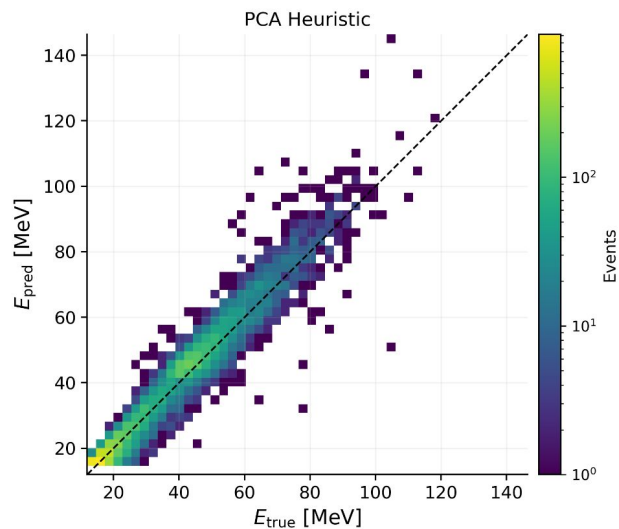
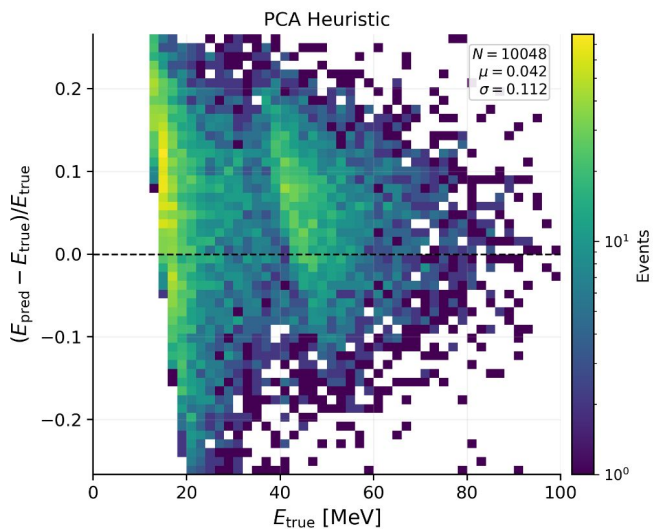
**University of Rochester**



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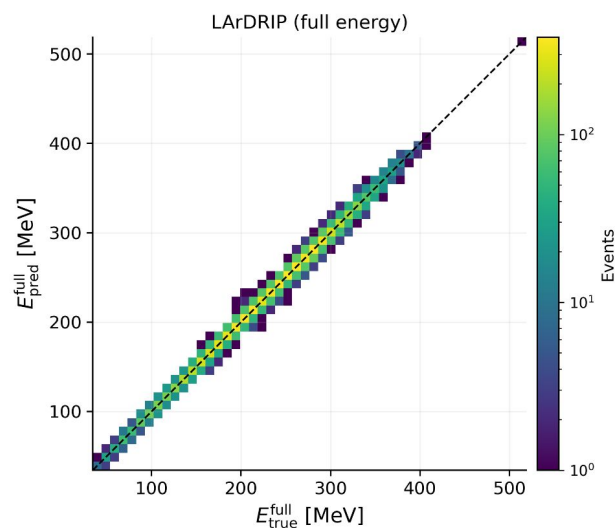
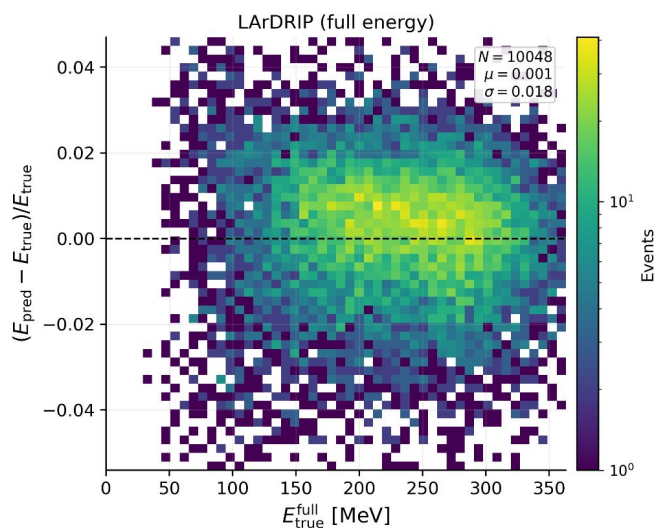
PCA Heuristic



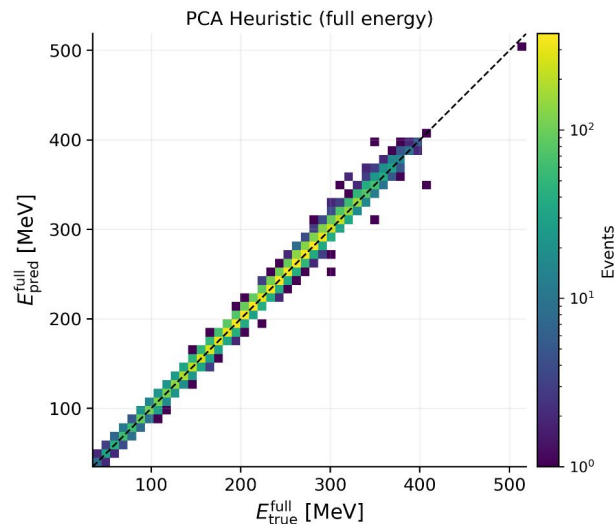
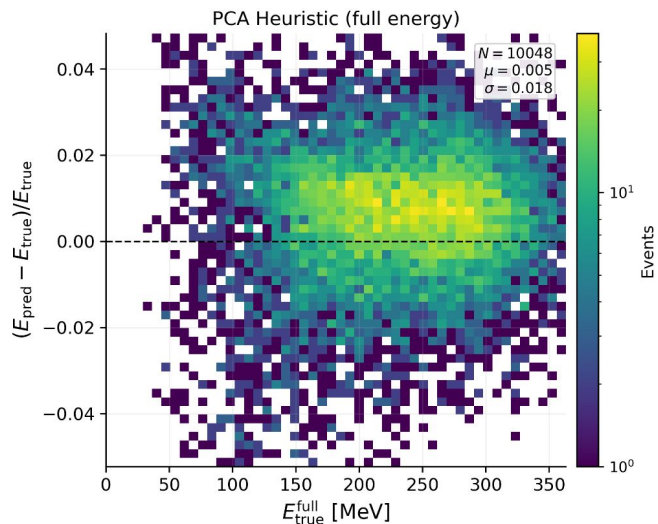
Hilary Utaegbulam



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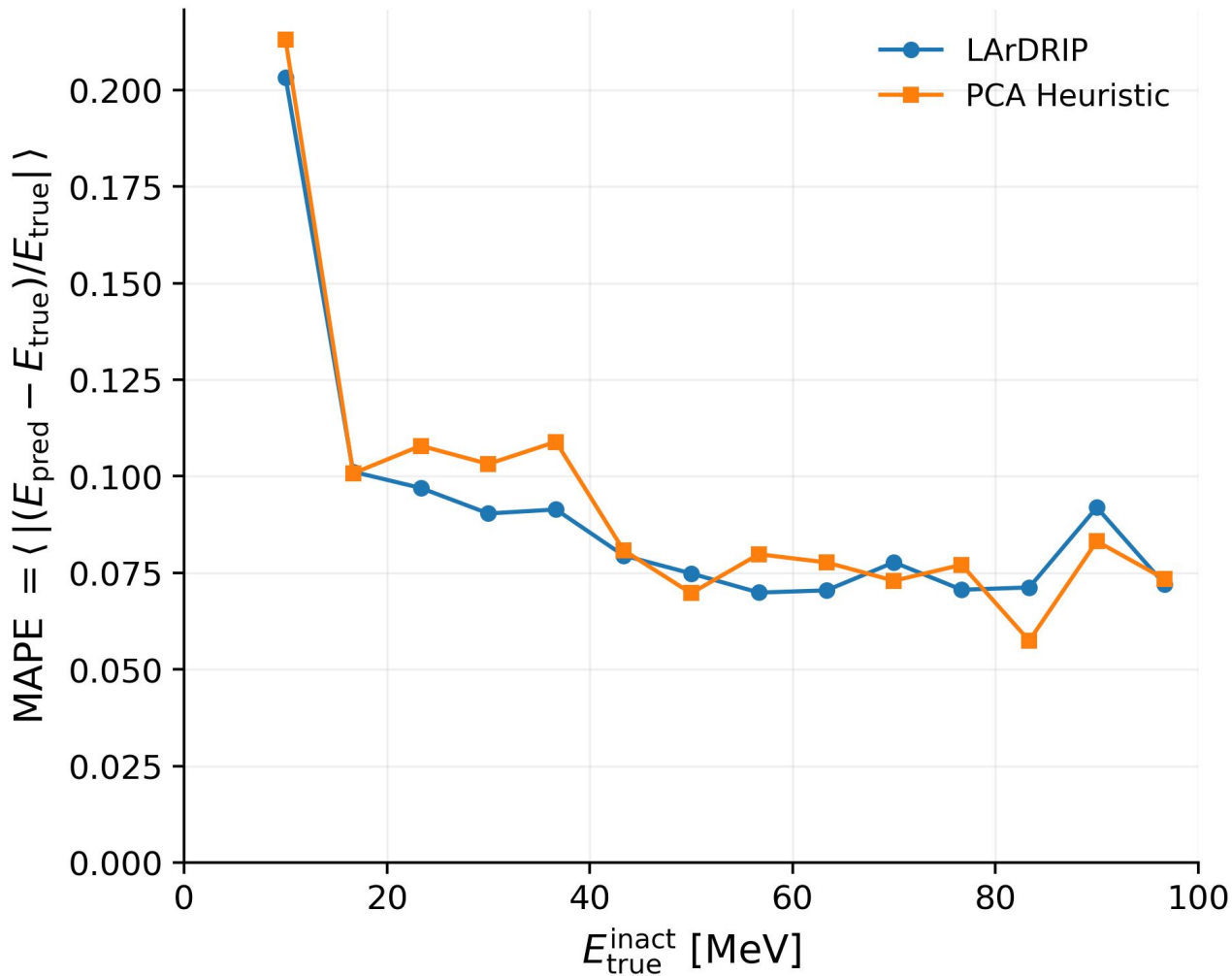
PCA  
Heuristic



Hilary  
Utaegbulam



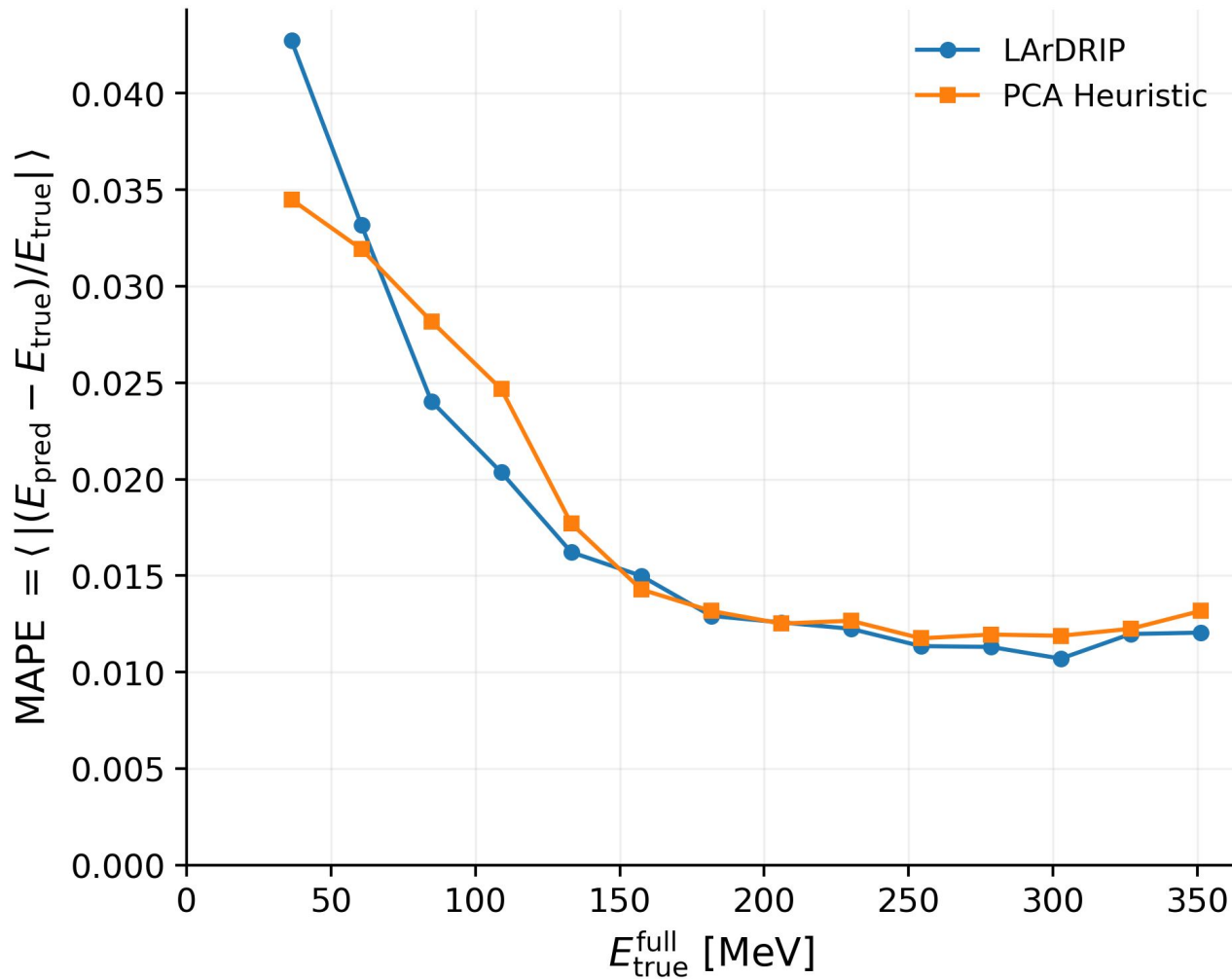
MAPE vs  $E_{\text{true}}$



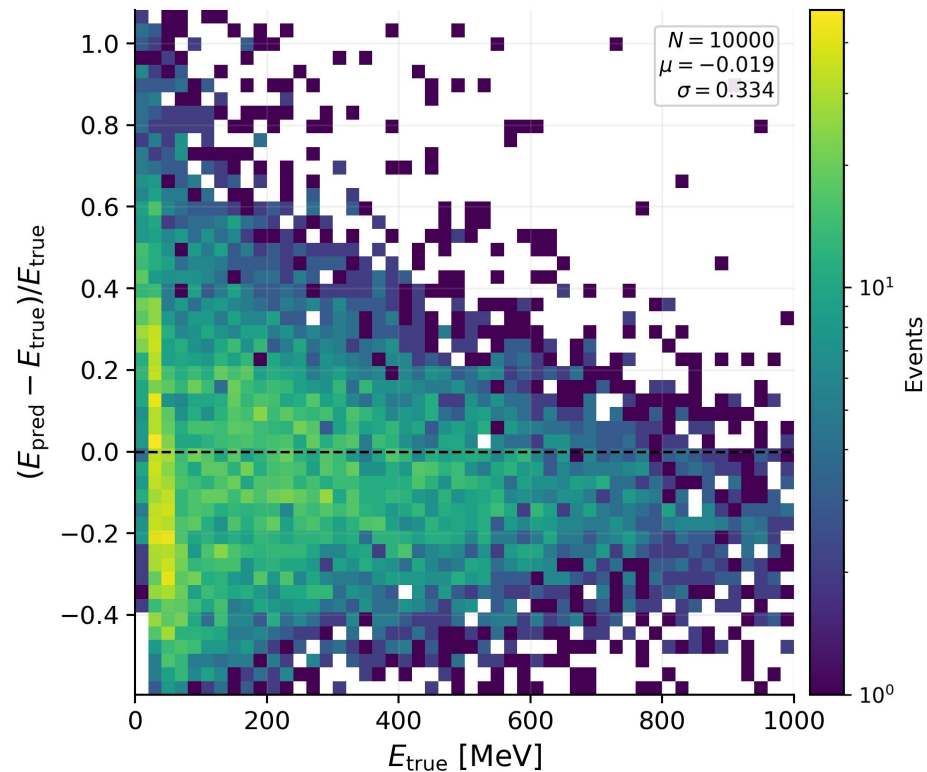
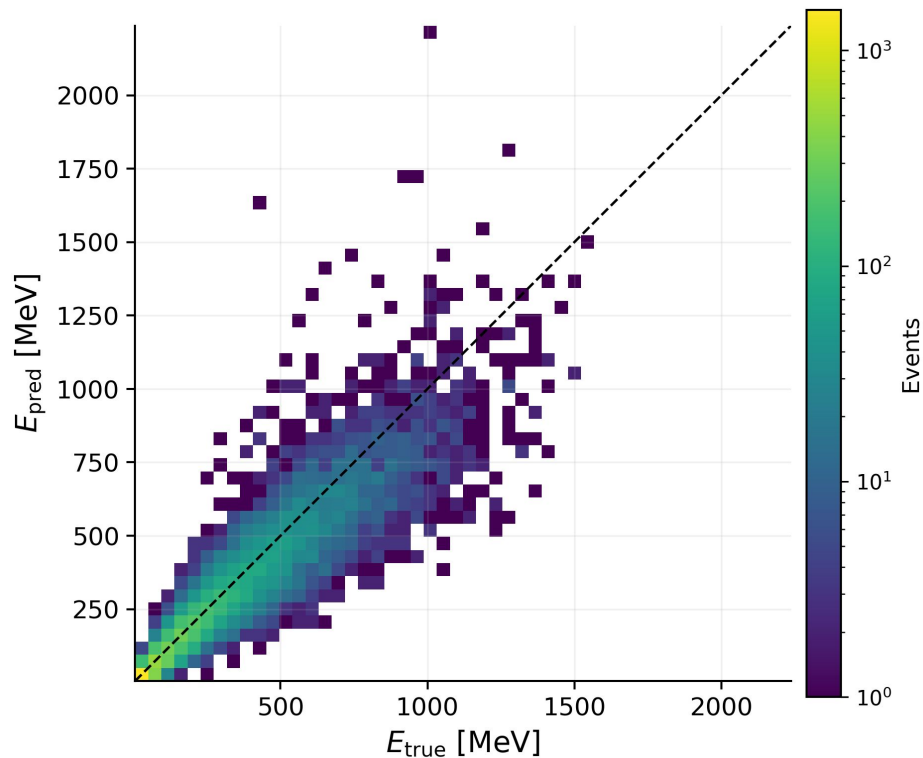
Inactive  
Region

MAPE vs  $E_{\text{true}}$

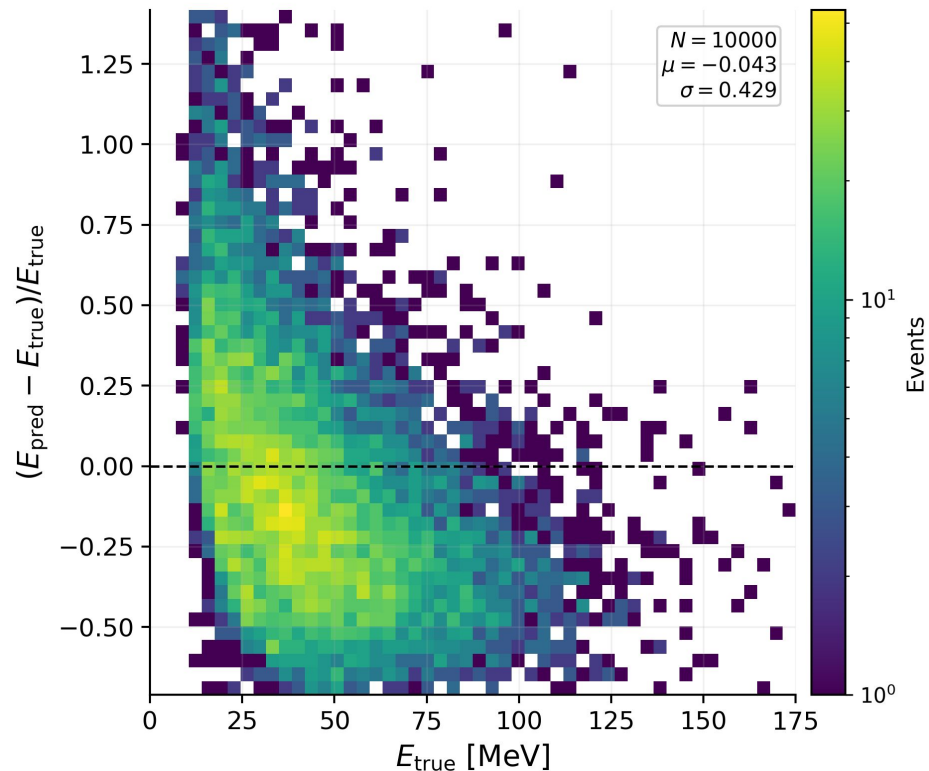
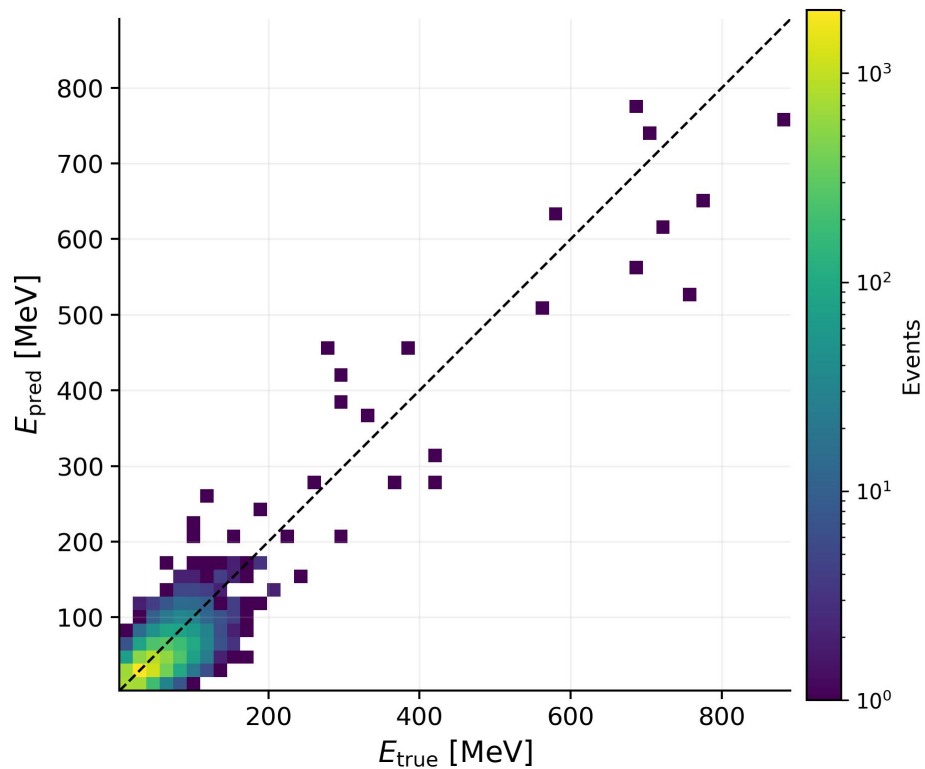
Full



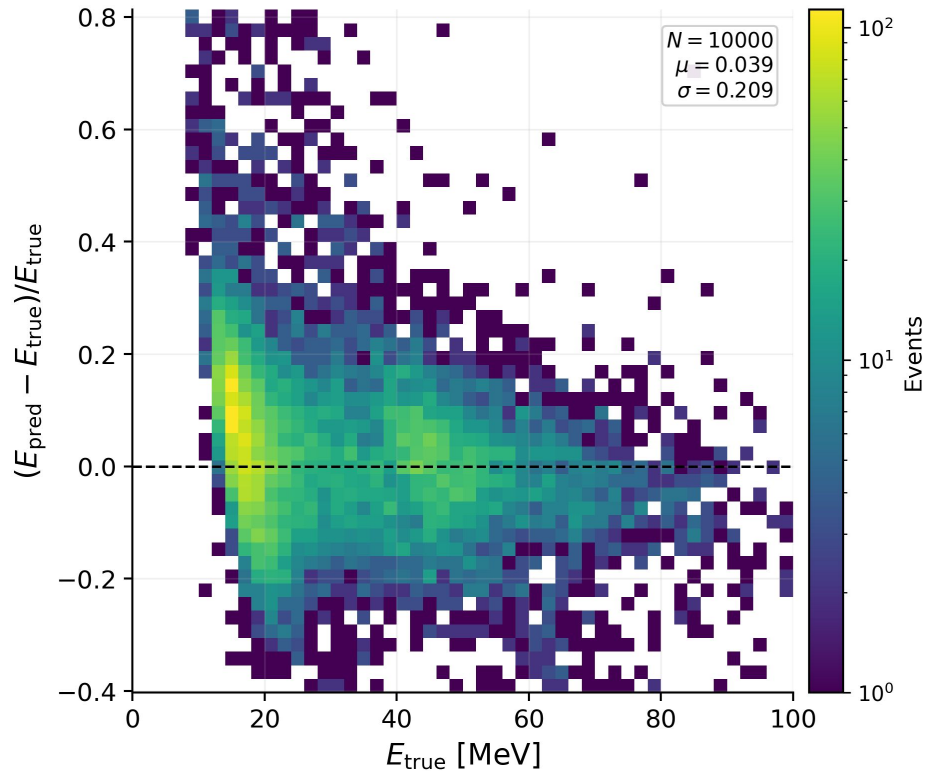
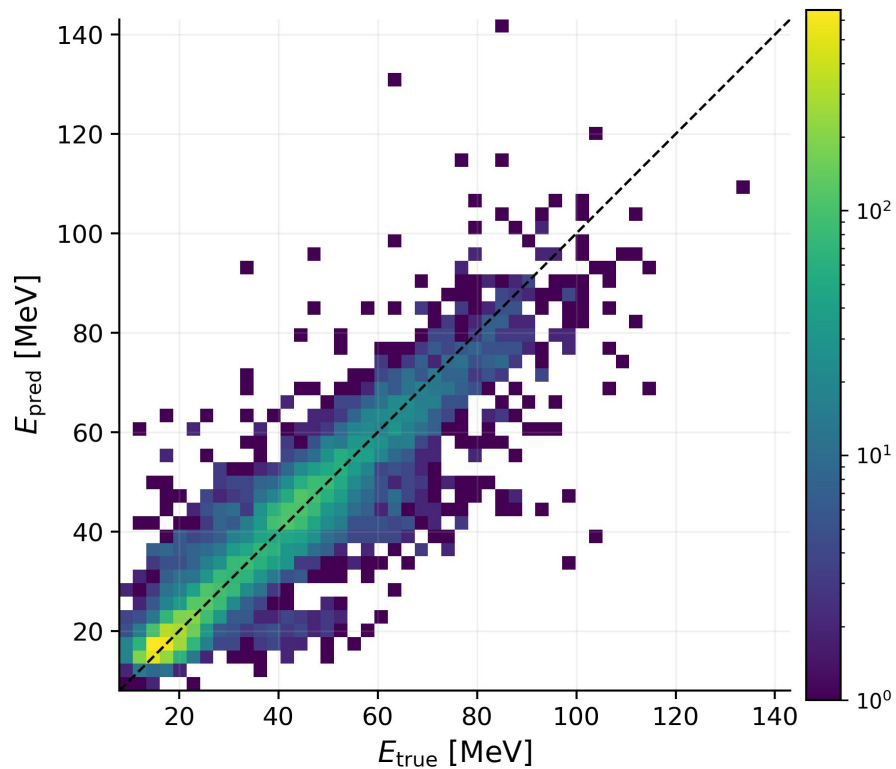
# e- showers



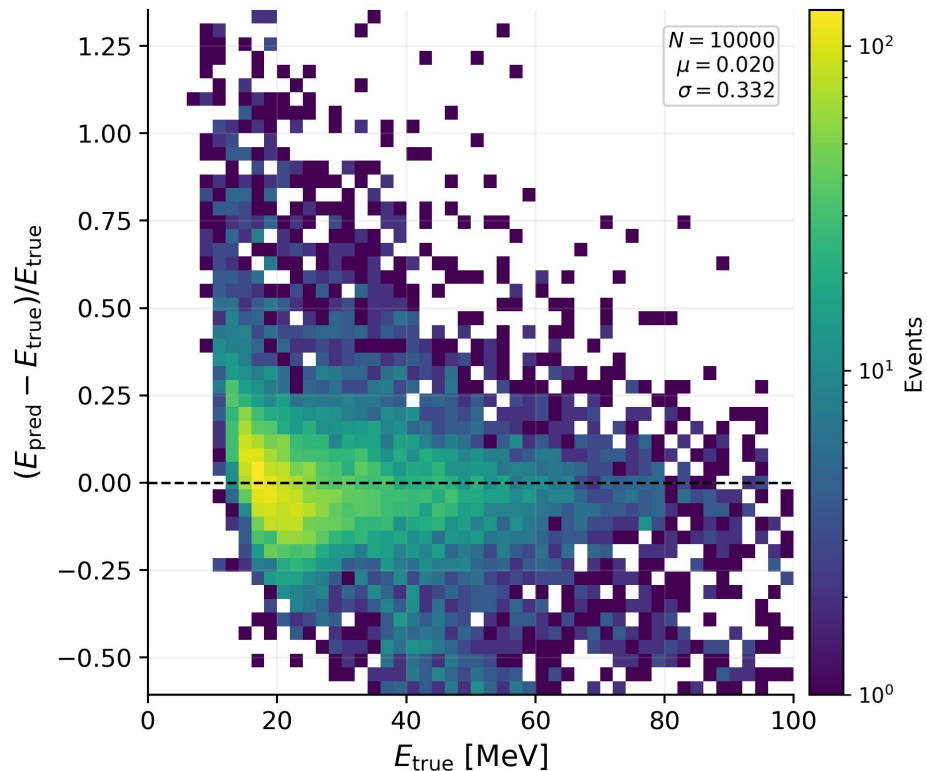
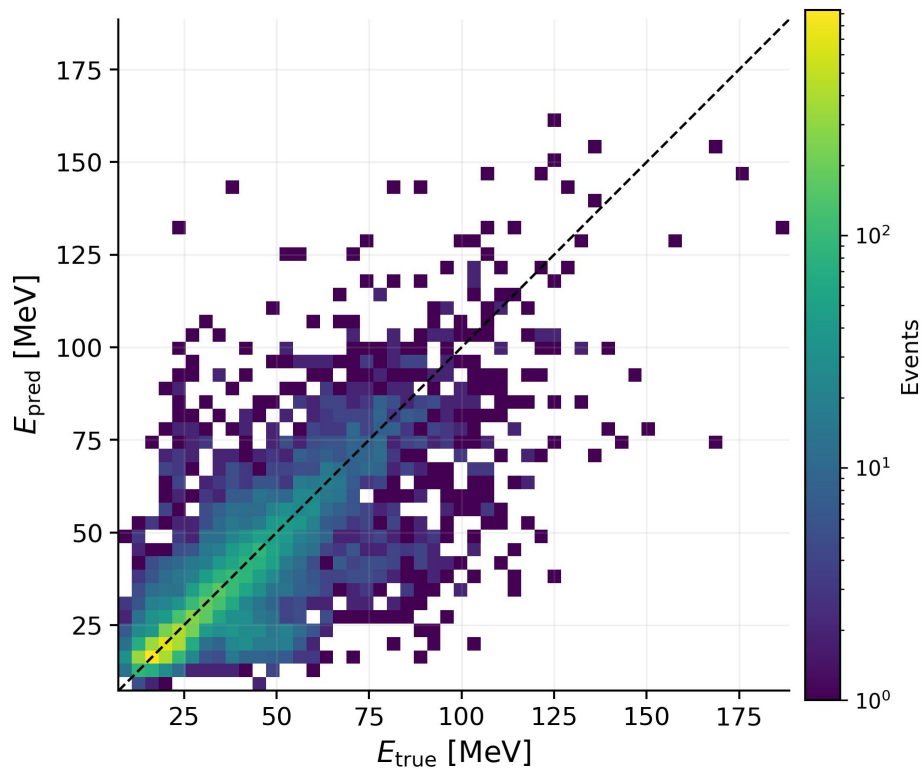
# $\gamma \rightarrow e^+e^-$ showers



# muons



# pions



# protons

