Comparison of models with and without the new preprocessing

7 July 2024

$\{v_i\}_{i=1}^{6480}$: shower

$\epsilon_i = \frac{v_i}{E_{inc}}$: reduced deposited energy in voxel ith

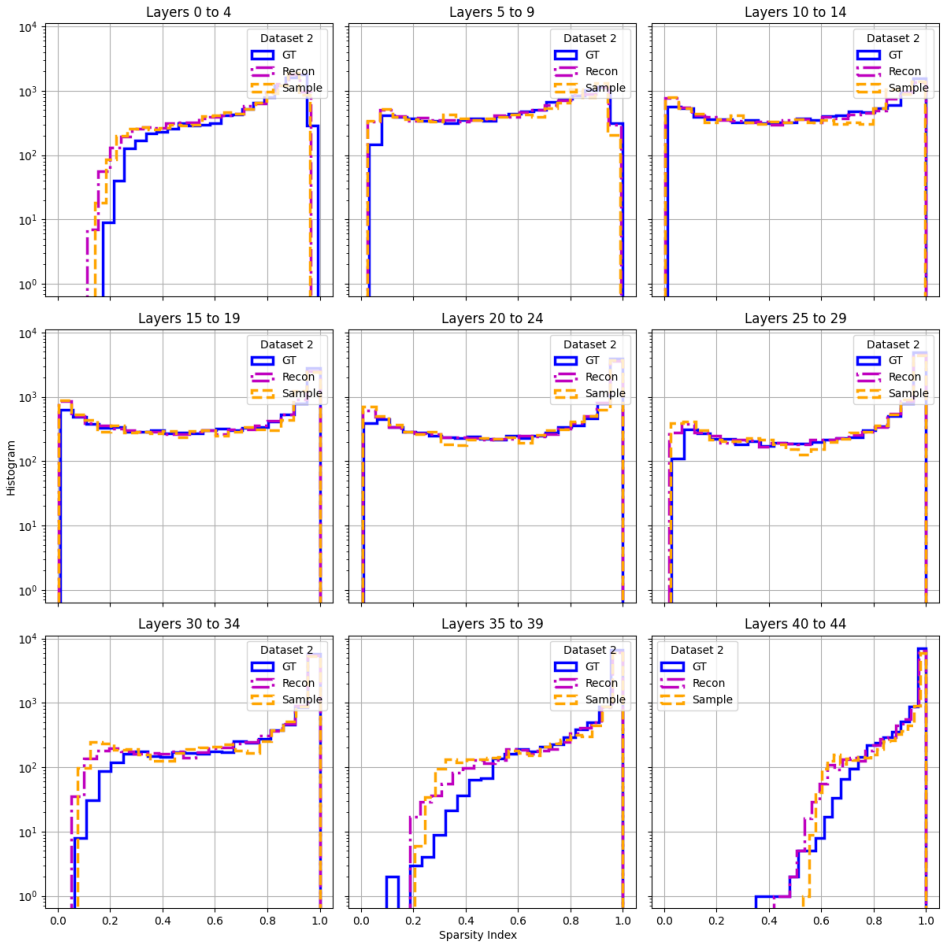
$x_i = \delta + (1 - 2\delta)\epsilon_i \qquad \delta = 10^{-6}$

$$u_i = \log \frac{x_i}{1 - x_i}$$

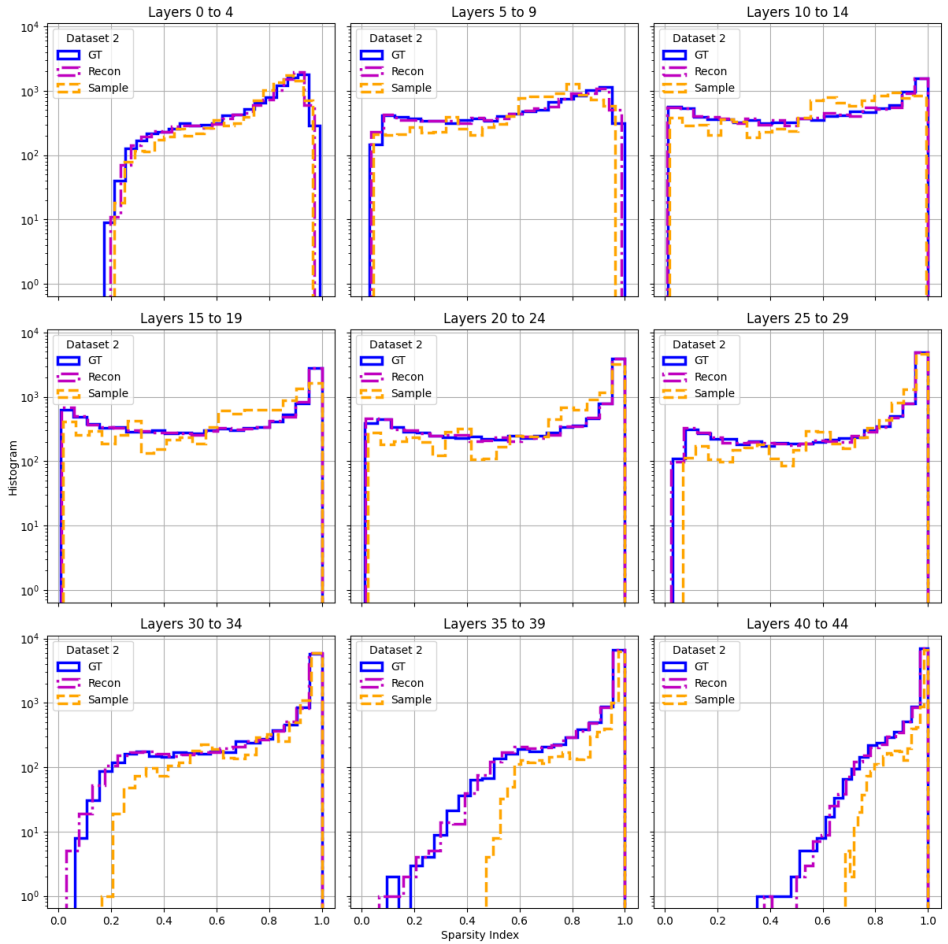
$$u_i' = \frac{u_i - \langle u_i \rangle}{\sigma_{u_i}}$$

Sparsity

Old

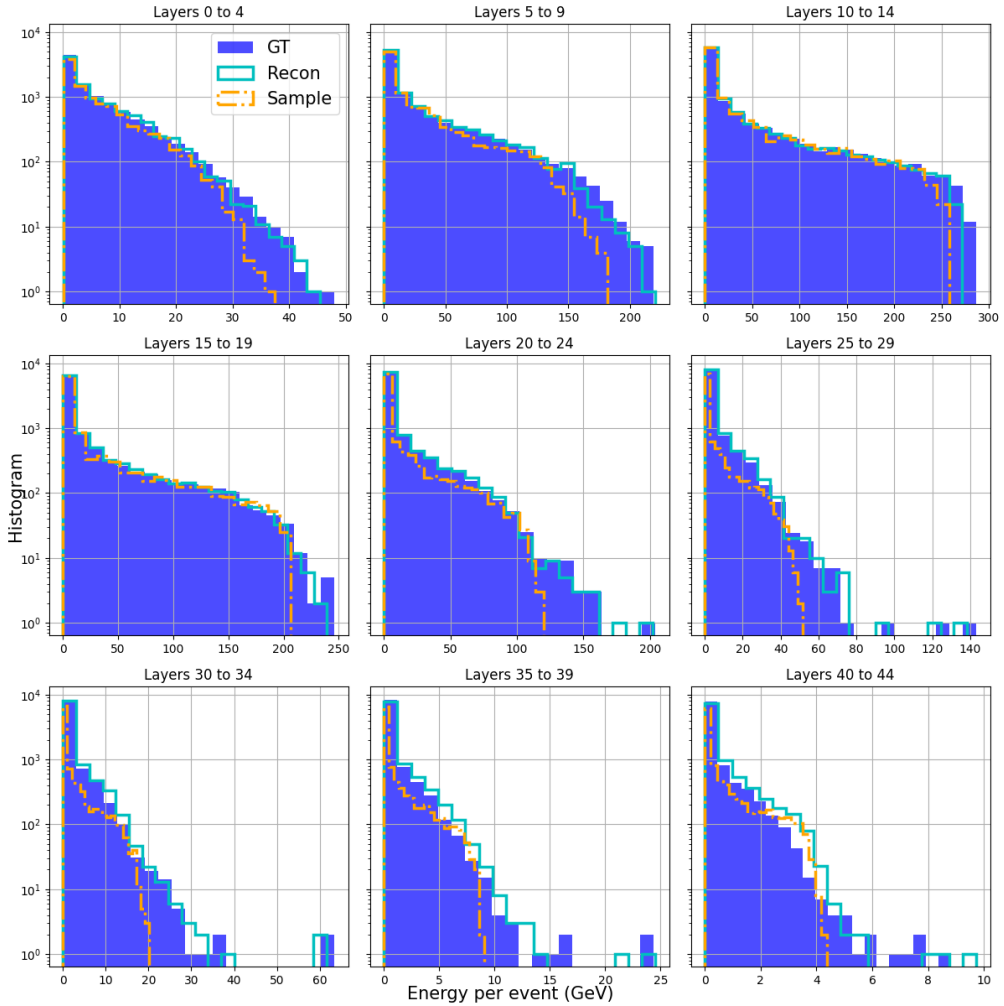


New

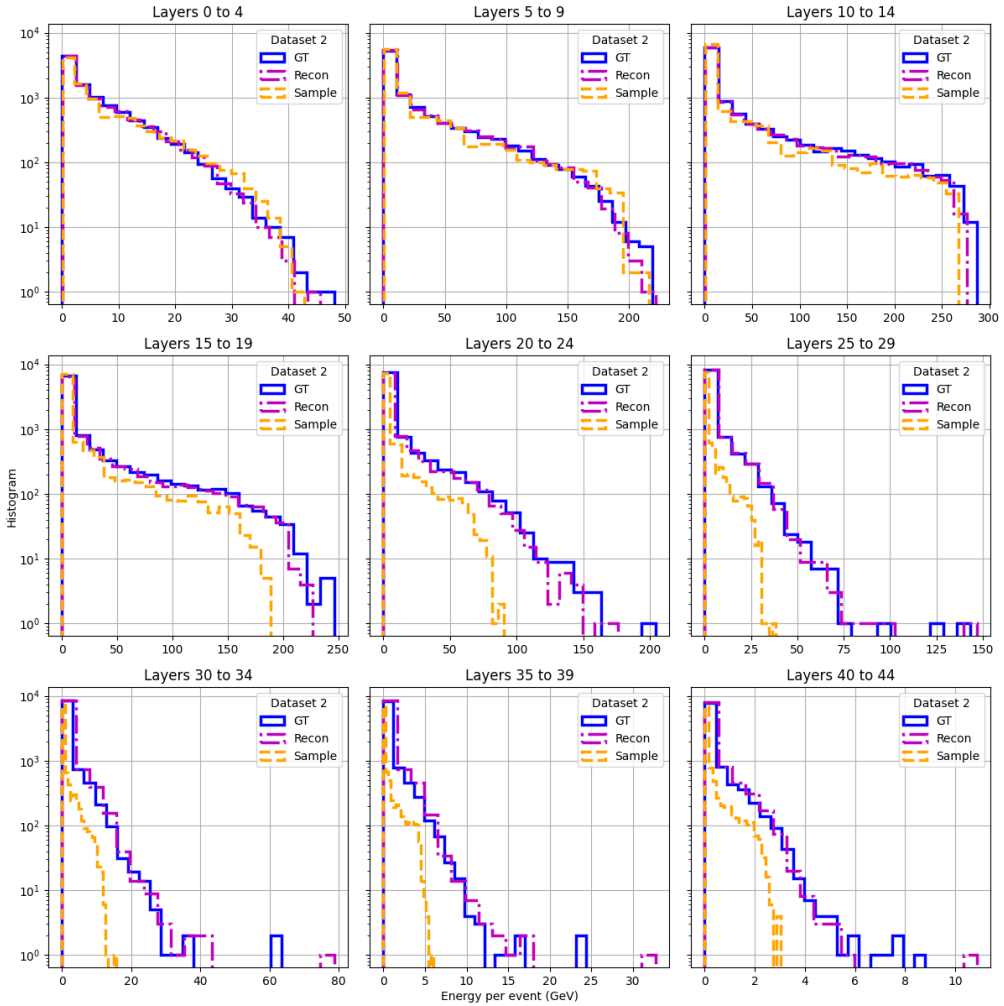


Energy

Old

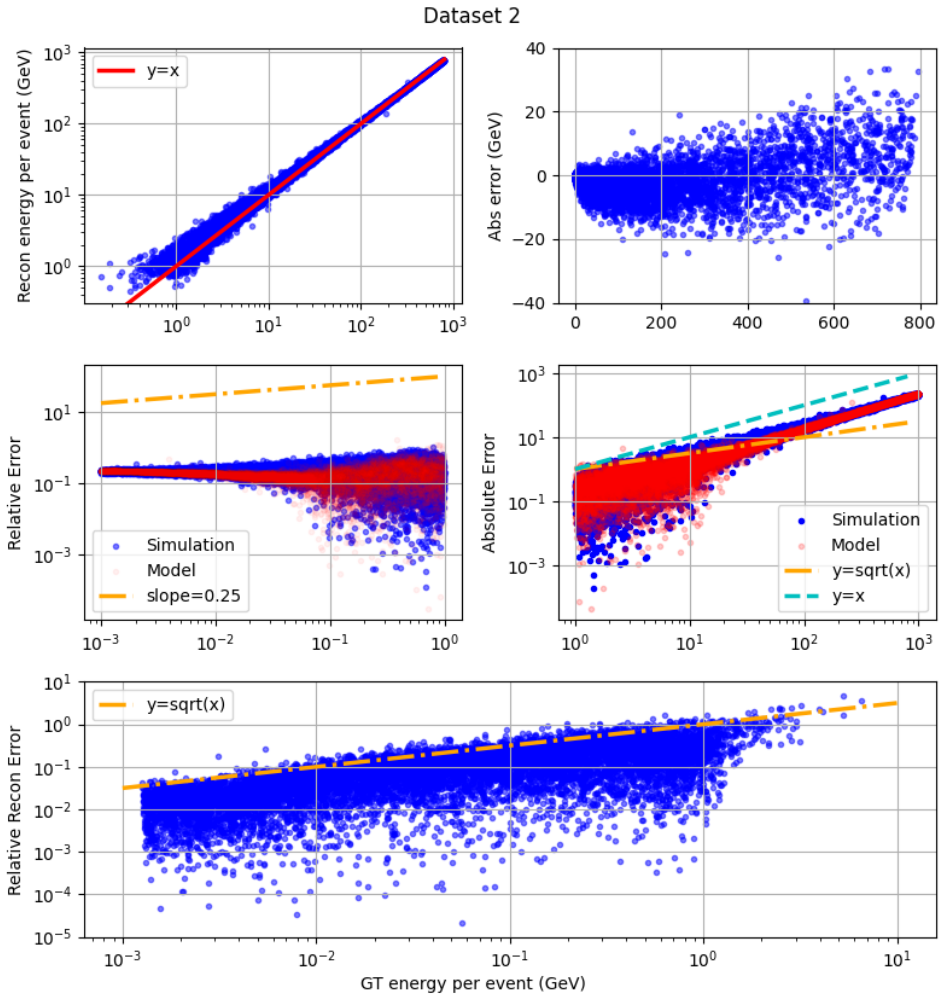
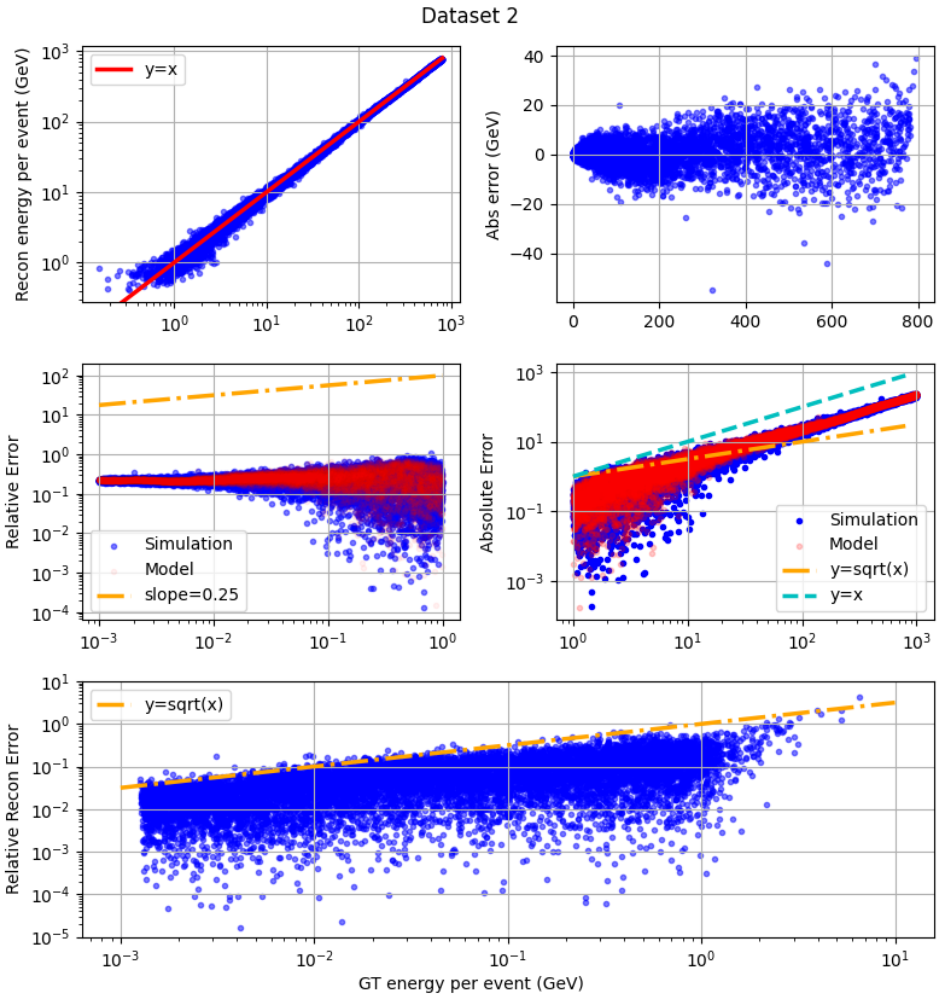


New



Errors

Old



New