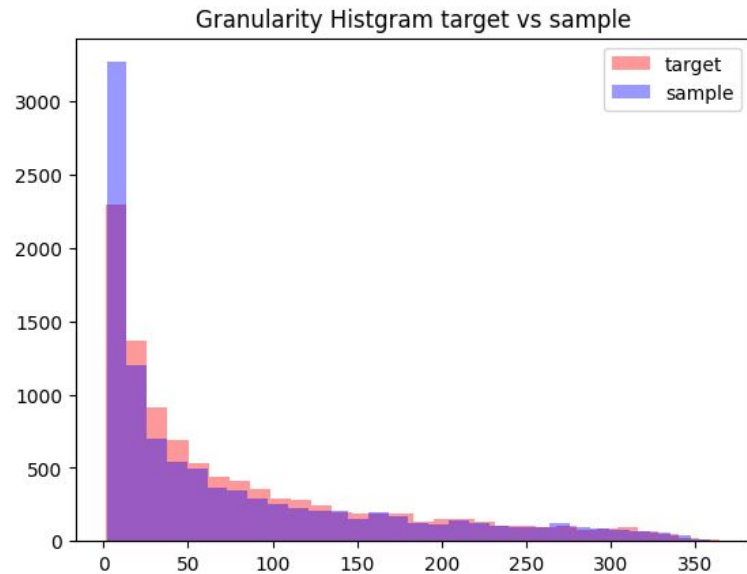
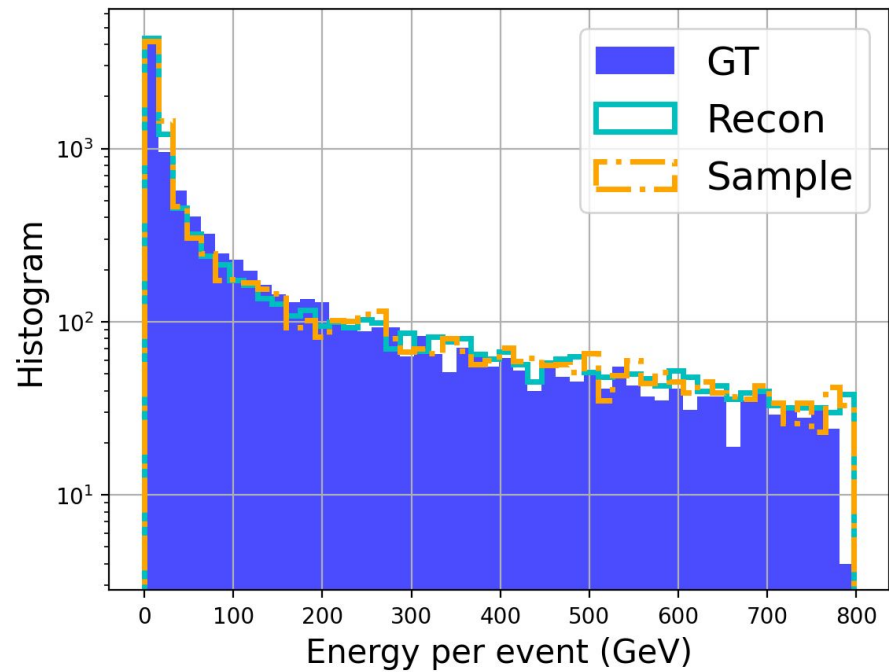
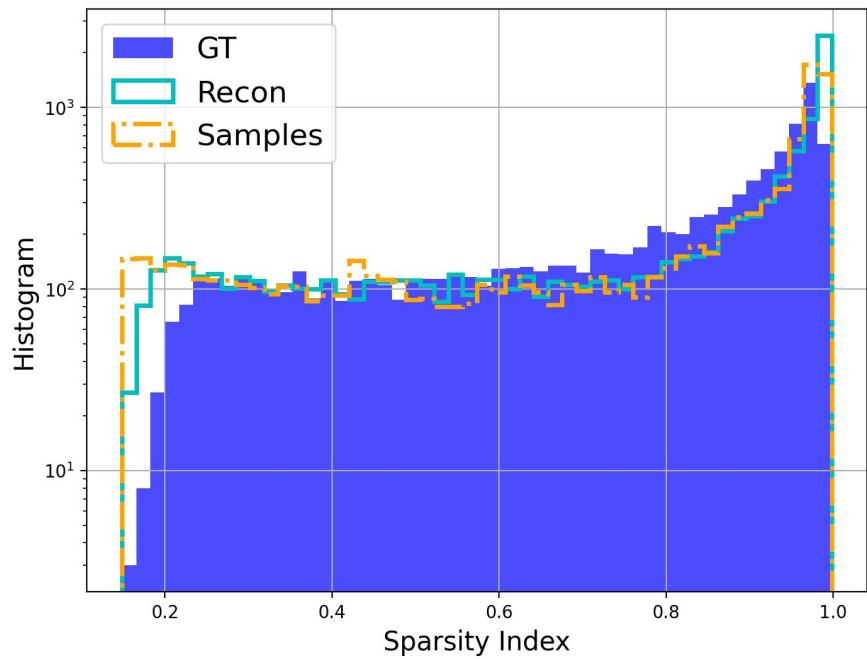
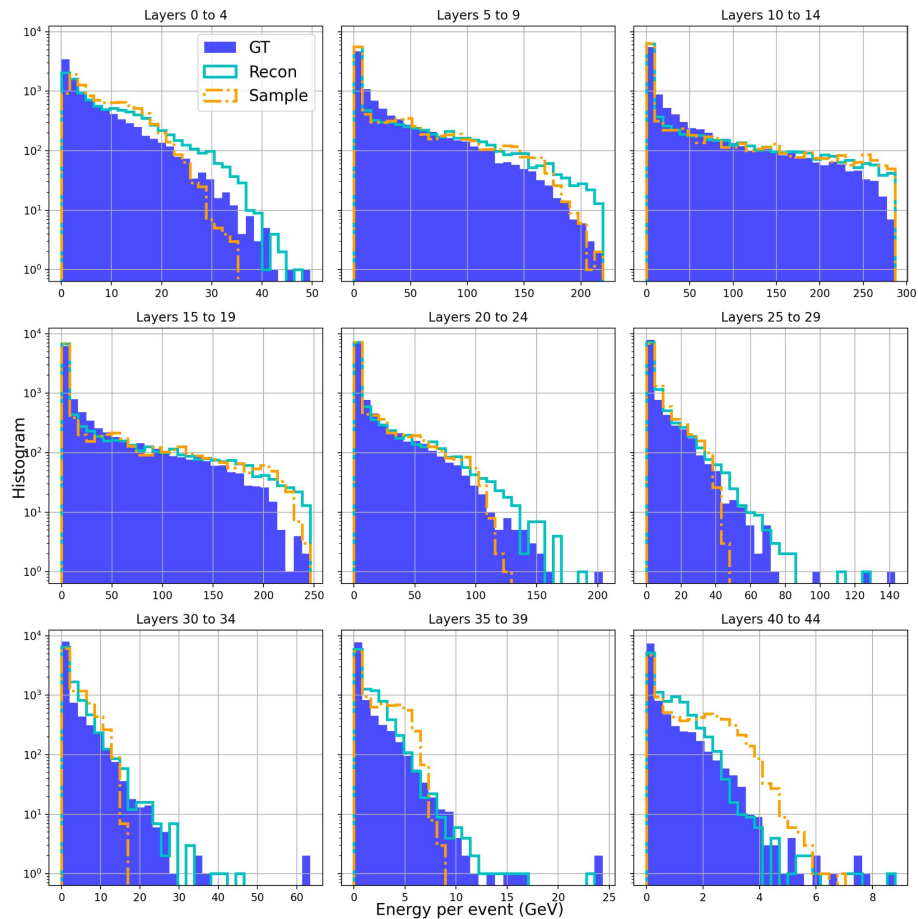
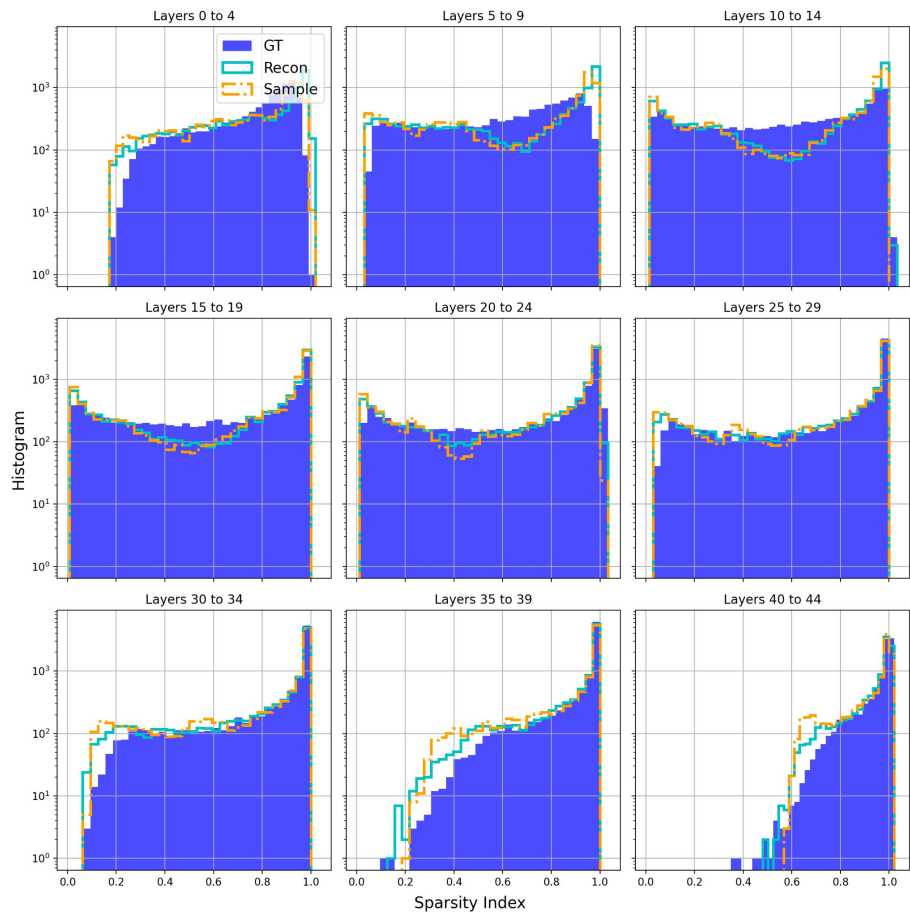
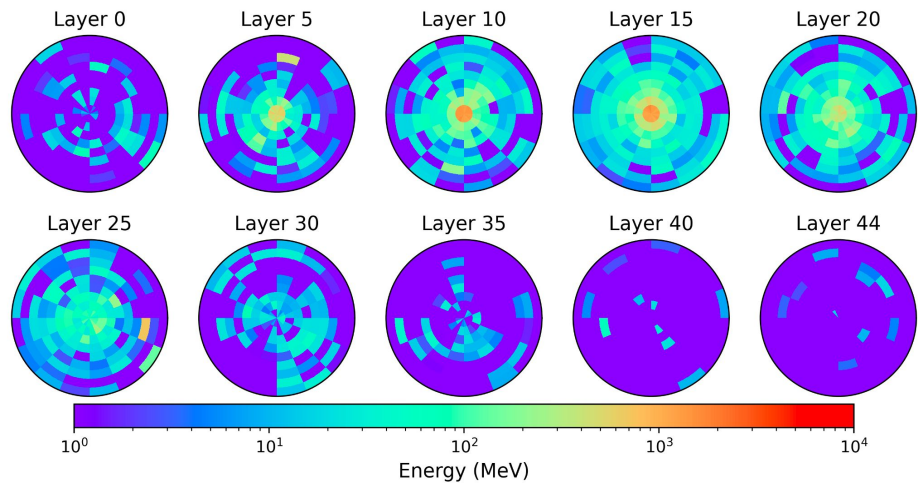


```
def measure_single_granularity(data_tensor):  
    # Calculate the differences between consecutive elements  
    diffs = (data_tensor[9:,:] - data_tensor[:-9,:])  
    std_g = torch.std(diffs, dim = 1)  
    return std_g
```

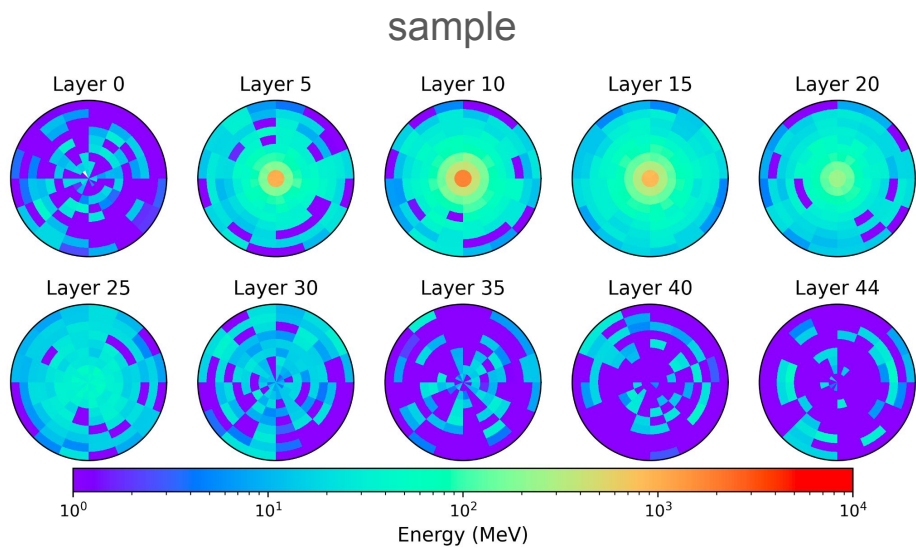


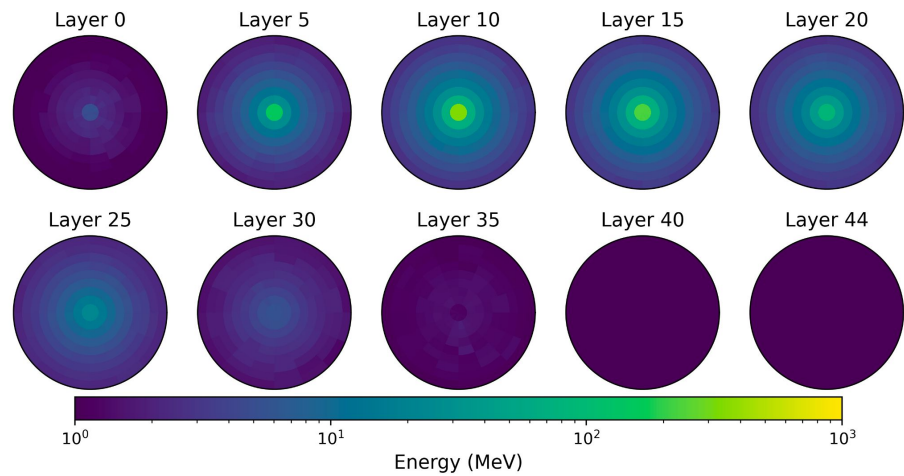




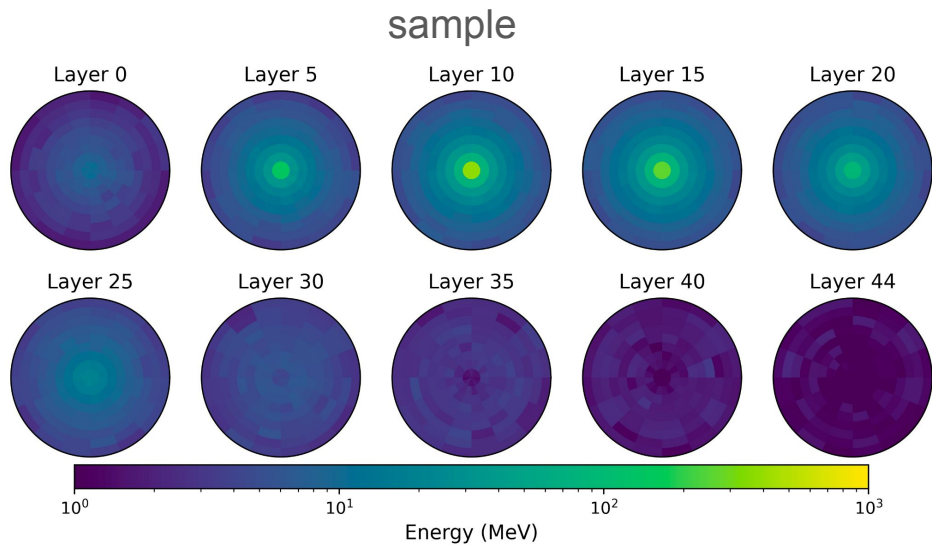


Input





Input



# Another check

For each event:

$$\text{GR} = \text{std} [E(x) / \text{batch\_mean}(x)]$$

where  $x$  is the voxel position

Right shows the histogram of GR on 10000 events for target and sample

