Deep Autoregressive Networks For Fast Simulation



loana Ifrim EP-SFT



Network Developments

Information Propagation Changes



- So far, tests have been performed on classical shower representation. However, the convolutional masks were not following the shower development from a physics perspective
- of the data points
- The result of shower representation changes implied a network restructuring in order to deal with the new format of data (8,56,24)
- The loss function was purely based on a probabilistic approach, however, the need for physics information needed to be imbedded into the prior







- By reindexing the cells, to follow the radius of energy from the centre, we describe cell dependencies more accurately. Here, the row number represents the radius size



