The Model

Stage 1: Pre-Training

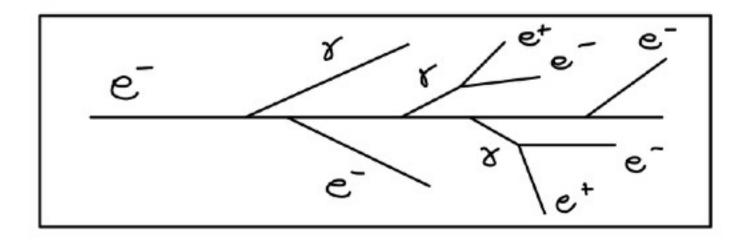
Pre Training

Maschine Learning Input

Goal: Learning the Fundamental Structure of Particle Interactions Input of the model:

Voxel Energy, Voxel ID Labels, Global Event Features

Toy Representation EM Shower



- hit_track_id: Groups hits from the same particle as it propagates
- hit_primary_id: Groups all hits that descend from the same primary particle
- hit_pdg: physics-based grouping, groups hits by PDG code

