

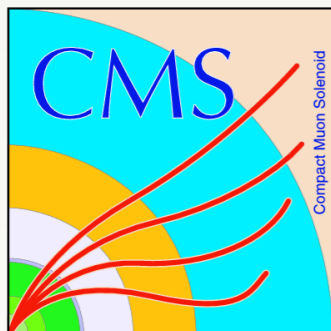
Learning to predict cumulative quantities in unordered sets

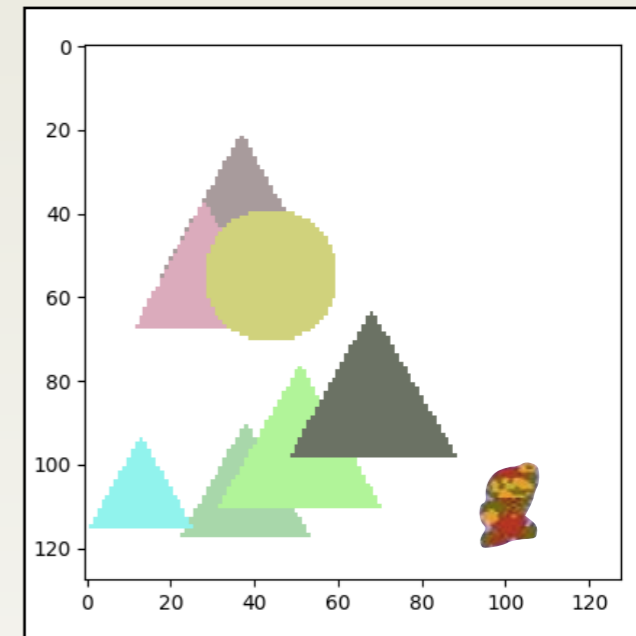
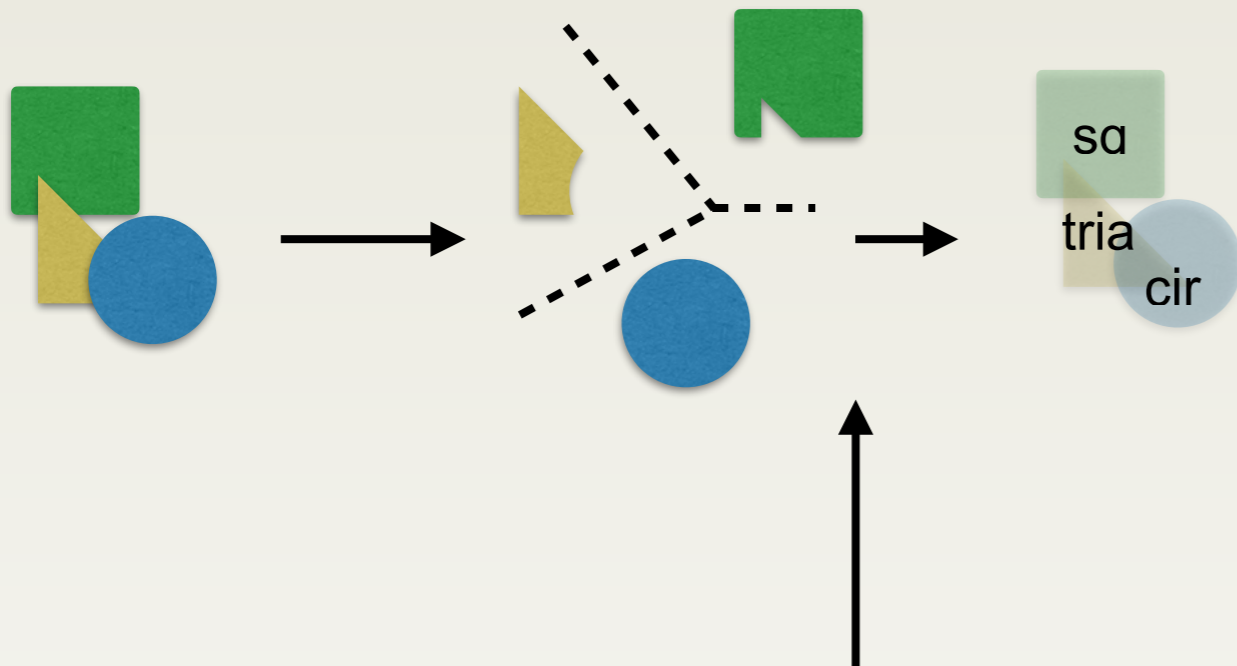
- or -

Predict N particles from M detector hits

Jan Kieseler

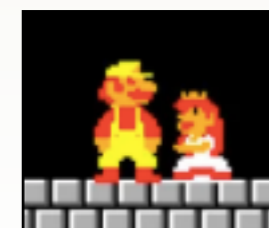
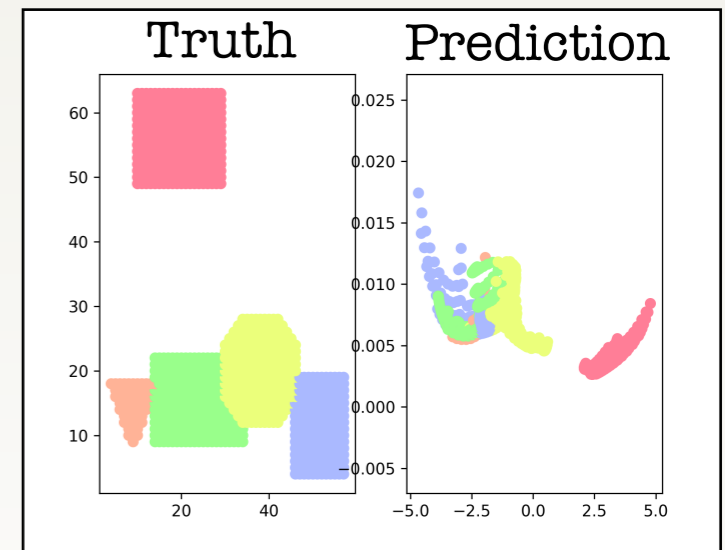
3.10.2019





- General idea: separate in latent space and assign ID/energy ...
- Work done:
 - ✓ Get toy generator running and produce dataset
 - ✓ Write loss in tensorflow
 - ✓ Started first trainings
 - ✓? Discover that an $N_{\text{pixel}} * N_{\text{pixel}}$ distance needs a lot of memory
 - ✓ Wrote visualisation for output (during trainings)
 - ✓ Get ~~good~~ ~~reasonable~~ ~~promising~~ ~~of~~ a lot to improve results

(to my defense, just started the trainings, and got a lot of parameters to adjust)



Not quite there yet