

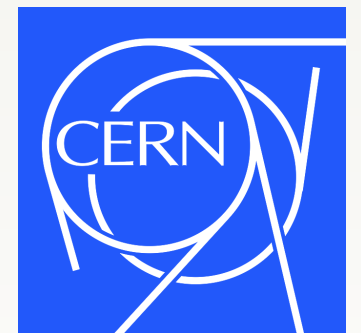
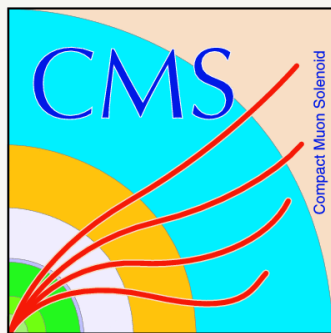
# Learning to predict cumulative quantities in unordered sets

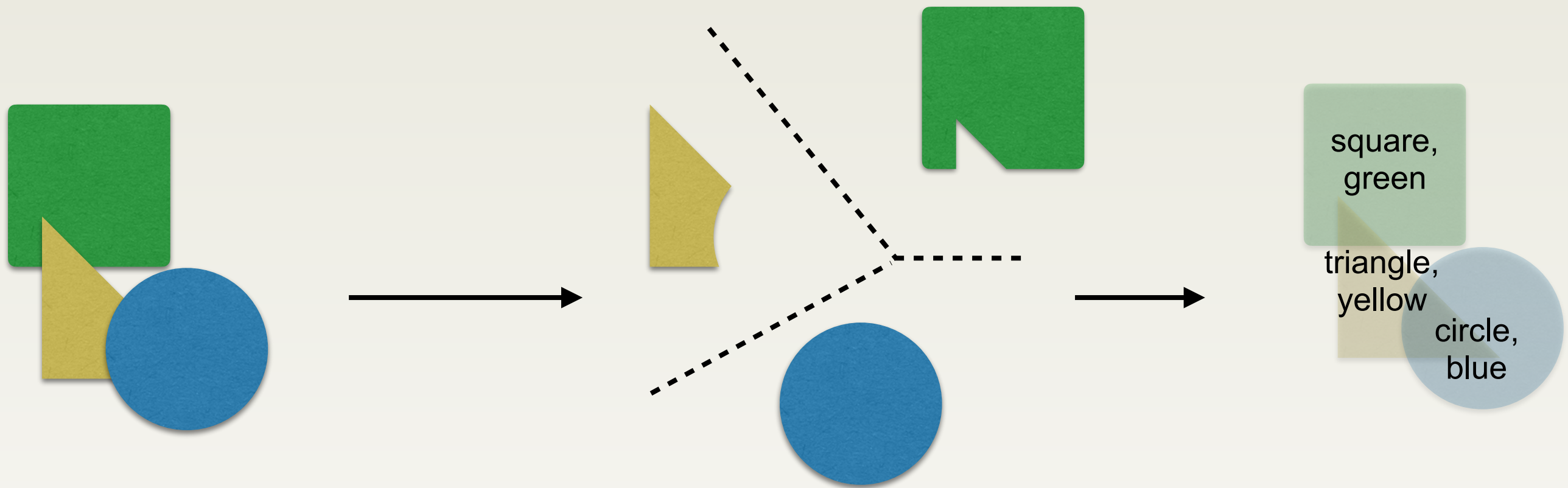
- or -

## Predict $N$ particles from $M$ detector hits

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- General idea: separate in latent space and assign ID/energy ...
- Today's work:
  - ✓ Read a lot of recent papers on unordered sets
  - ✓ Define loss function: latent space, attractive potential, repulsive potential, confidence measure
- Tomorrow:
  - ▶ Start developing a toy generator with shapes in image as a testbed
  - ▶ Get toy generator running and start toy trainings