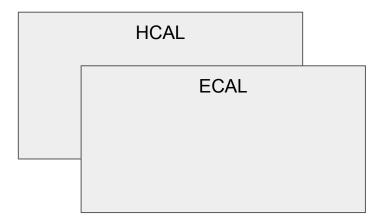
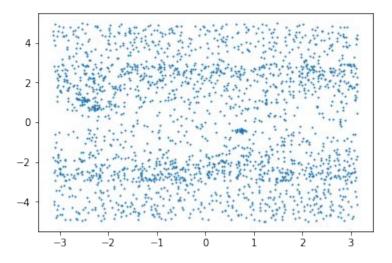
Generated dataset

- 5 types of jets: RSGraviton_bb_NARROW, RSGraviton_tt_NARROW, RSGraviton_hh_NARROW, RSGraviton_WW_NARROW, ttH_highPt
- 100 files per type
- o 10000 events per file
- Total: 5M
- 1 Image/event
- Few objects per event

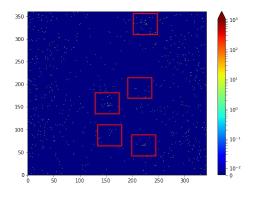
- Uniform sizes no need of resizing
- Number of classes: 2 (wide/normal jet)
- Bboxes: 2
- Number of channels: 1 (only ECAL at this point)

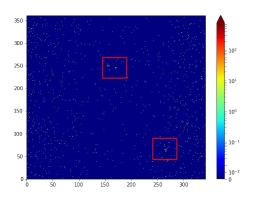


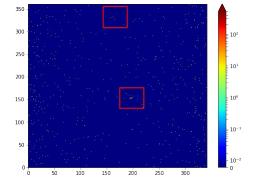
- Problem: Placing of crystals
- Translation to to pixels (1 crystal = 1 pixel)

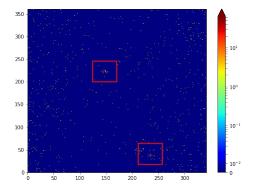


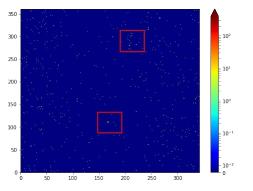
• Examples:



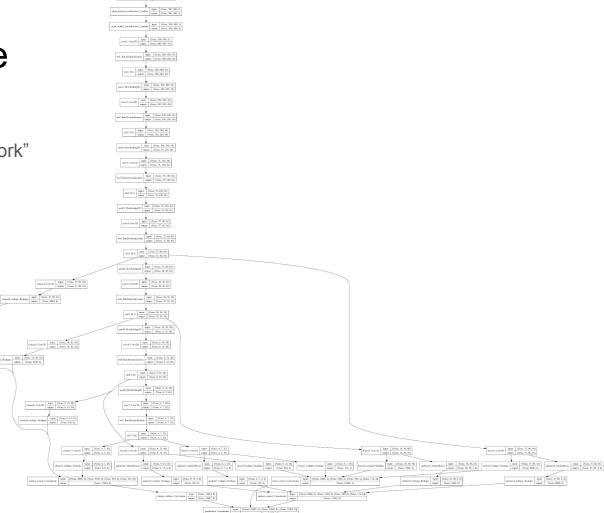








- Architecture
 - Off-the-shelf "Simple network"



SSD Training

 Takes very long: even with really simple models (CPU: 1 epoch takes ~100min). CPU only for debugging

Next steps:

- Train on GPUs
- A model should ready for a Hackaton (30th Sep).
- Start working with HLS4ML framework.