Track ML

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May 24nd –Third Patatrack Hackaton

The workflow

"Tracking-like" NN based workflow

1. Building seeds (*quadruplets*)
2. From *quadruplets* predicting next hit *position* with a RNN
3. Taking *all the hits* in a fiducial region around the *predicted position*
4. Reiterate until **no hit** found in the fiducial region
5. Clean tracks (DNN-like model)

- Finished the dataset cleaning

    - excluding tracks wit 2-3 hits on a single layer

    - barrel only

    - one hit *issue* (see plot). Background ?

- Produced training samples

    - build hit quadruplets (**CA, work in progress**). Now from truth

    - regression -> 5th hit

- First nice RNN model built, *first crappy results got*

    - building blocks to iterate the prediction ready (building the fiducial region, scoring)