

One-slide summary of Track 1

which probably did not need a title slide

Institut Pascal Real-time analysis workshop:

<https://indico.cern.ch/event/793125/>

Participants from CMS, LHCb, ATLAS, NOvA/DUNE

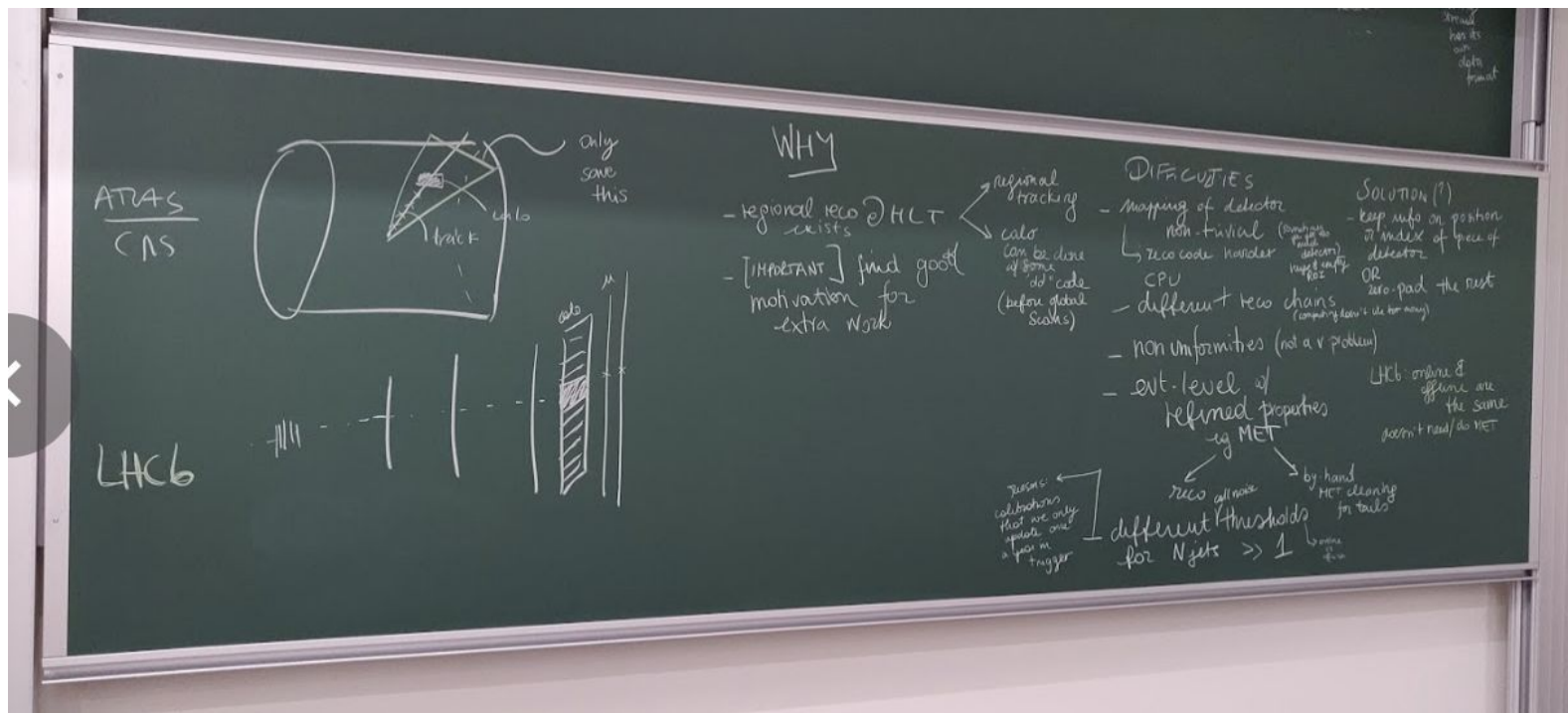
Alec Habig, Conor Fitzpatrick, Caterina Doglioni

Topics covered

- Wednesday morning: common discussion
 - Talks from NOvA/DUNE and ATLAS + discussion on need for partial event building
- Wednesday afternoon: joint HEP Software Foundation meeting
 - Compare-and-contrast RTA across CMS, ATLAS, LHCb - live noteslides: [\[link\]](#)
- Thursday morning: autoencoders (T3)
 - Following Track 3 autoencoder tutorial by M. Pierini and T. Nguyen
 - Further discussion: can autoencoders be used for data compression, in cases where precision of data isn't too much of a concern? Discussion will continue between ATLAS/LHCb (any others interested?)
- Friday morning: how to stay in touch & synergies betw. different fields
 - Distinction between physics case synergies and tools&techniques synergies (many!)
 - Mike S.'s idea of machine learning school / cross-field training
 - Some discussion of DOE Town Hall meeting slide - see (edit) [the last slide of this](#)

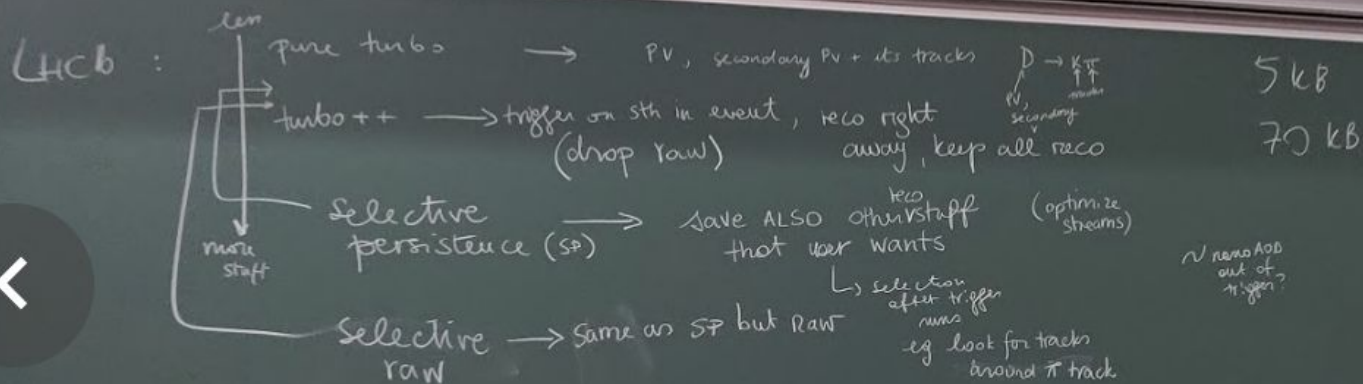
Backup: whiteboards covered (in text)

- Wednesday morning: common discussion



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- Wednesday morning: common discussion



~ needs AOB out of trigger?

CHS: data stream connected to kind of output

each running thread has its own data format

