1st Analysis Meeting, TB2019

A. Irles, LAL-CNRS/IN2P3
31/07/2019

- Two weeks of Beam Test at TB24. From 24th June to 7th July.

- Presence from

- Plus support & hardware from

Run descripion

End of the beam test, at 14.30. Start dismounting.

Run numbering:

run_CSXXX

- C= configuration
    - 1: only 5 FEV13 in the box
    - 2: 5 FEV13 + 2 SLB (0 and 3) in the box
    - 3: 5 FEV13 + 4 SLB in the box
    - 4: 5 FEV13 + 4 SLB in the box + tungsten plates
- S= system in the DAQ
    - 0= only FEV13
    - 1= only SLBs
    - 2= all

Data location. In the EOS (CERN)

Data Location + Software Location

> All data is in the CERN EOS: /eos/project/s/siw-ecal/TB2019-06/

- SLB_data → all converted data + raw (ASCII)

  Some runs are still missing… i.e. 32016,17, 18 (not copied from the DAQ pc?)

- pyrame/run_XX

  All data files are converted? High_gain is high gain? Or is TDC?

> Run LISTs:

- FEV13 → https://drive.google.com/file/d/1uQojIu9KlS9badhVrBf1LRFNt-kz62vV/view?usp=sharing
- SLB systems… to be done.

- I would add a new column to the table telling about the status of the conversion to root file.

Data Location + Software Location

> Software:

- Preliminary version can be found in /eos/project/s/siw-ecal/TB2019-06/SiWECAL-TB-analysis

> Soon to be uploaded to the github
https://github.com/SiWECAL-TestBeam/SiWECAL-TB-analysis to a new branch

- To be done today.

> Critical point: event building

- We need a pedestal file for each slab. Mandatory for the event building.
- We need mip calibration files… My proposal: not doing a mip calibration but a simple 500um/600um factor between FEV13 and the others.
- What is the offset between FEV13 and SLB systems? Is it constant?

Some built events (vey preliminary)
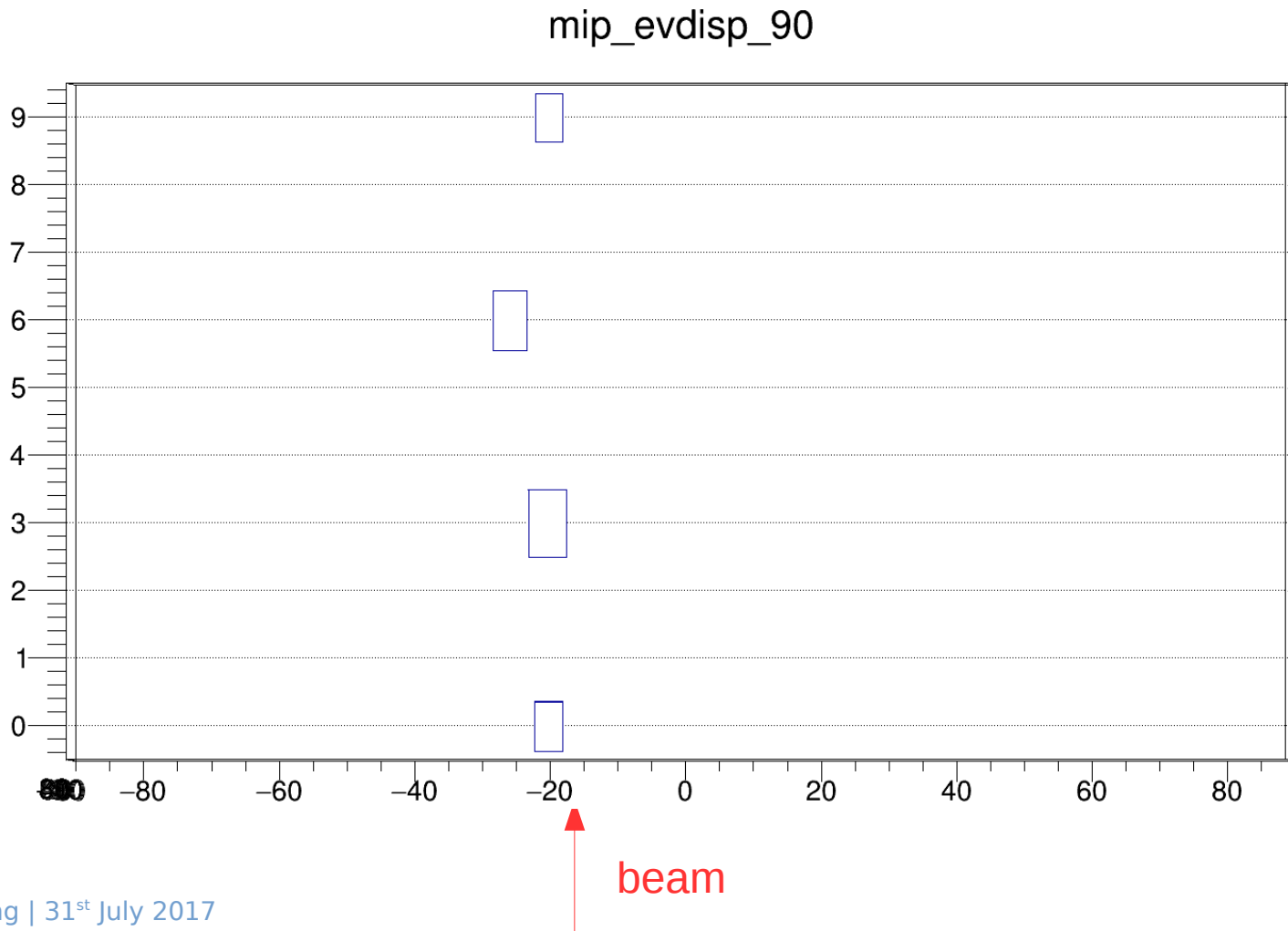
32014 (MIPs, 3 GeV, only SLB in the reconstruction)

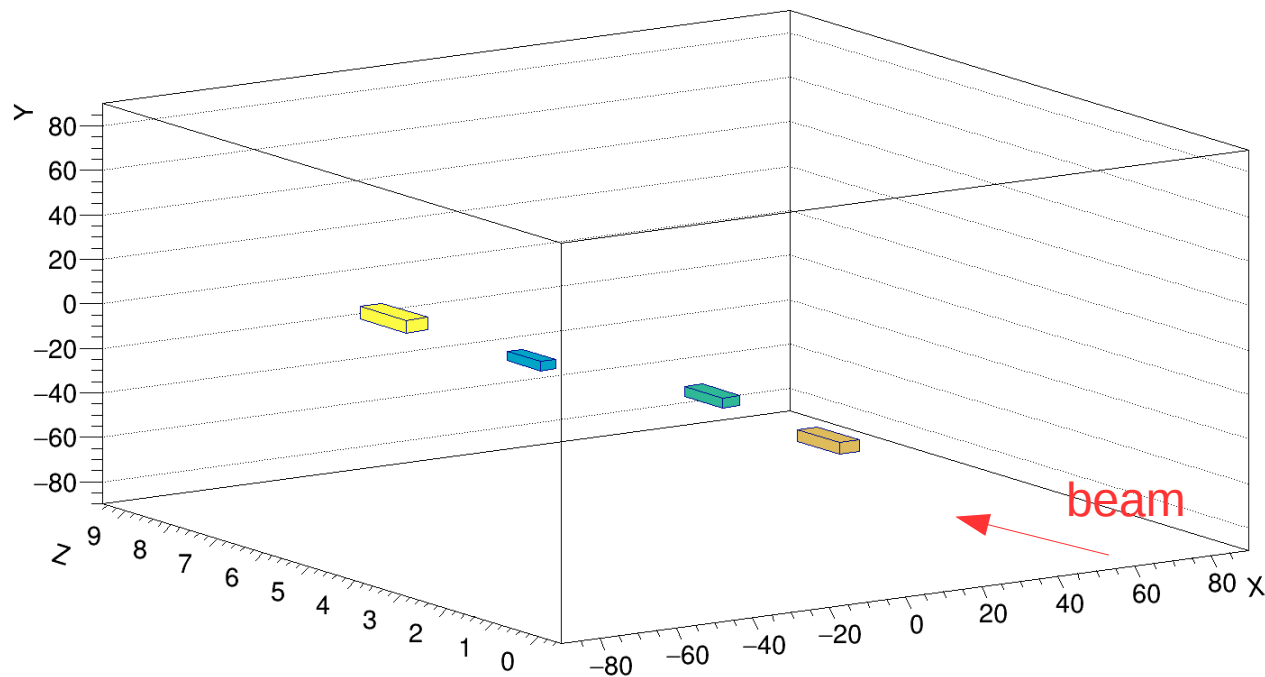mip_evdisp_81
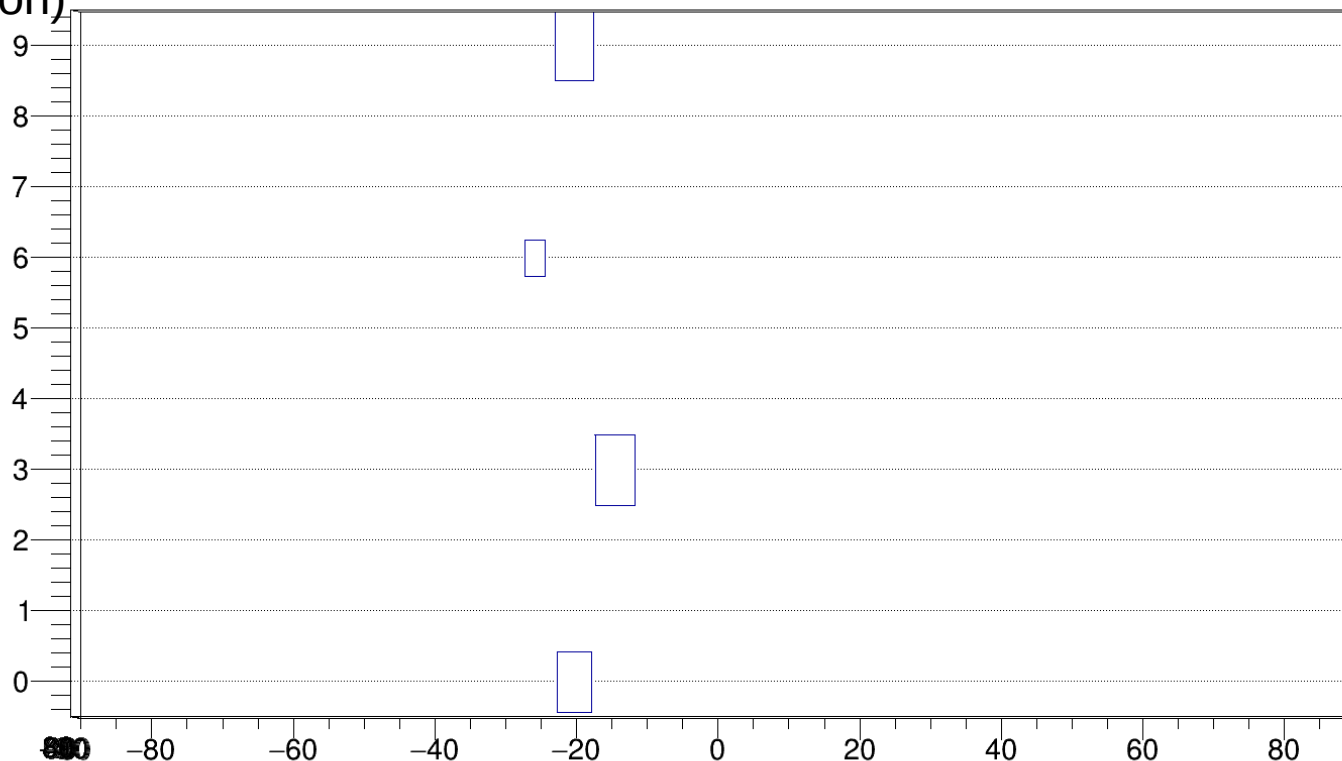
beam

Some built events (vey preliminary)

32014 (MIP
the reconstr

mip_evdisp_90

beam
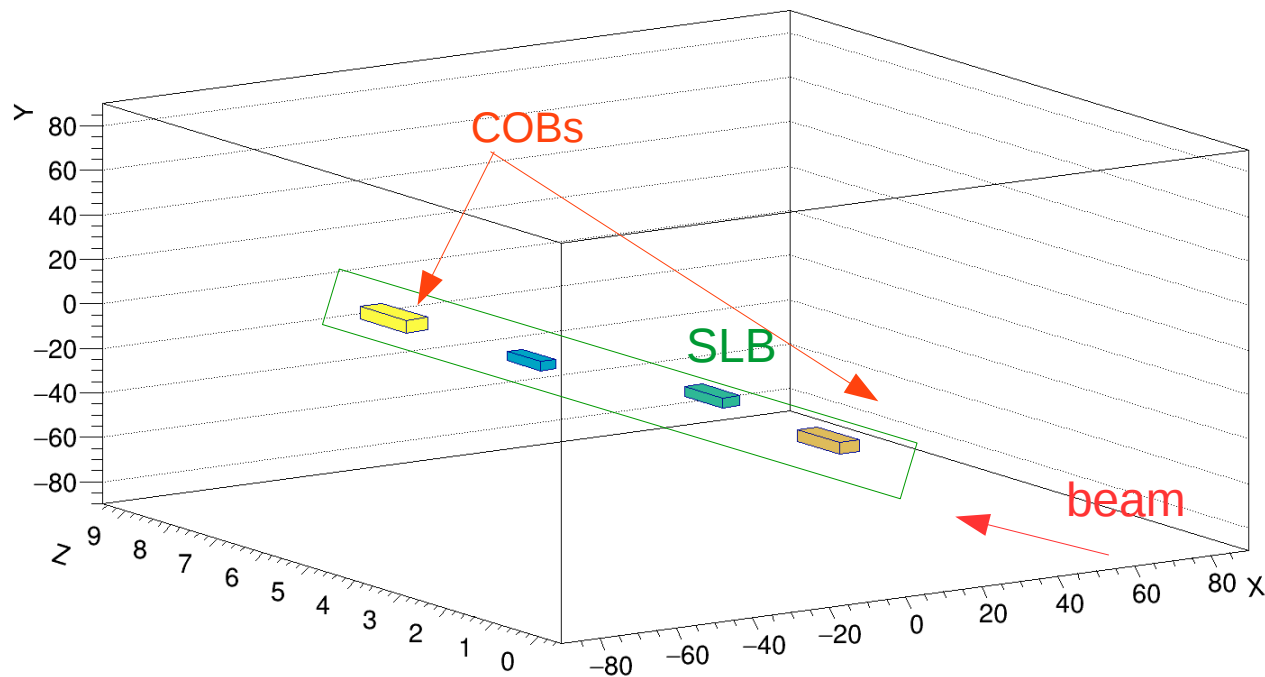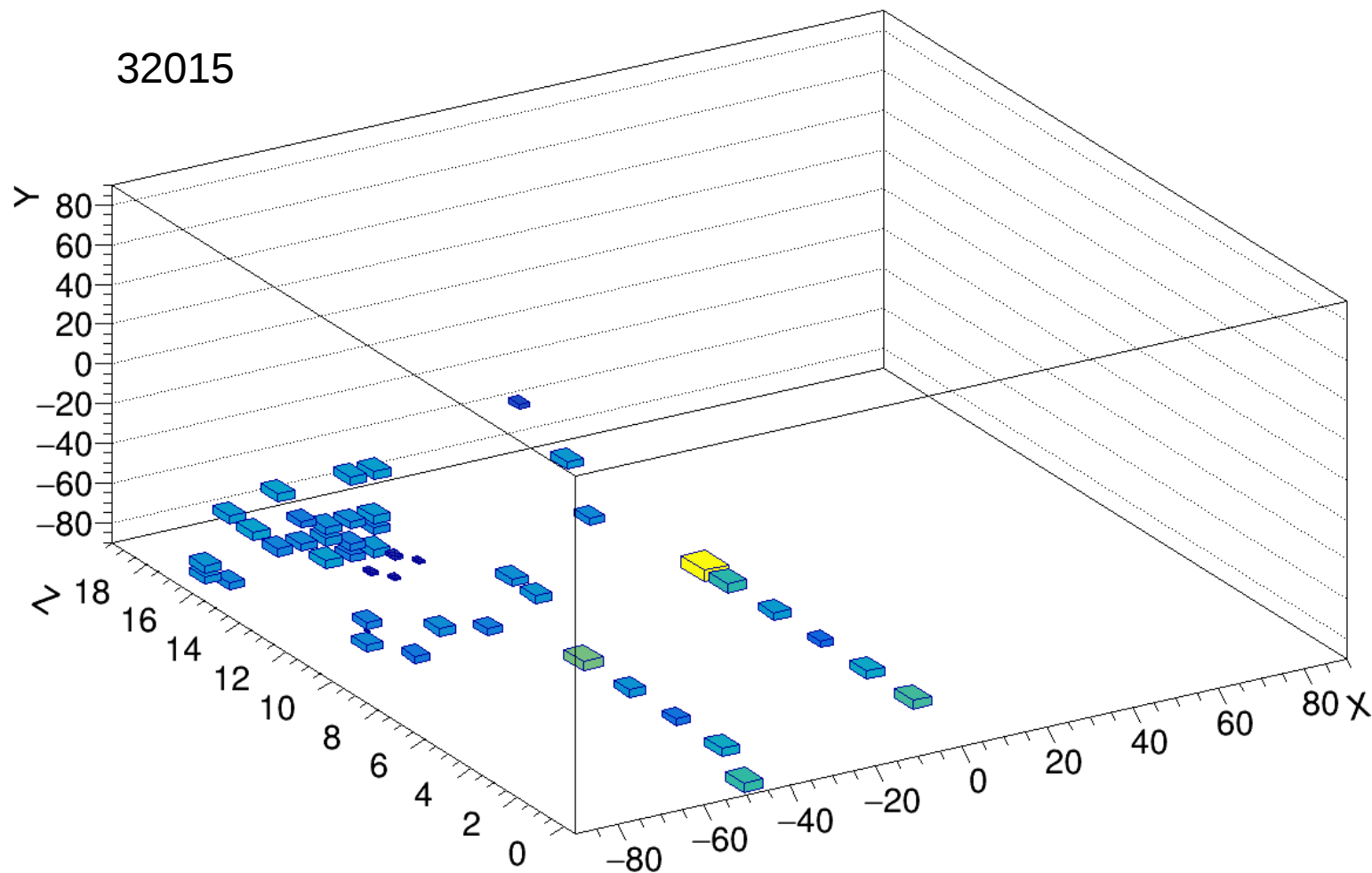
Some built events (vey preliminary)

32014 (MIPs, 3 GeV, only SLB in
the reconstruction)

mip_evdisp_499

beam

Some built events (vey preliminary)
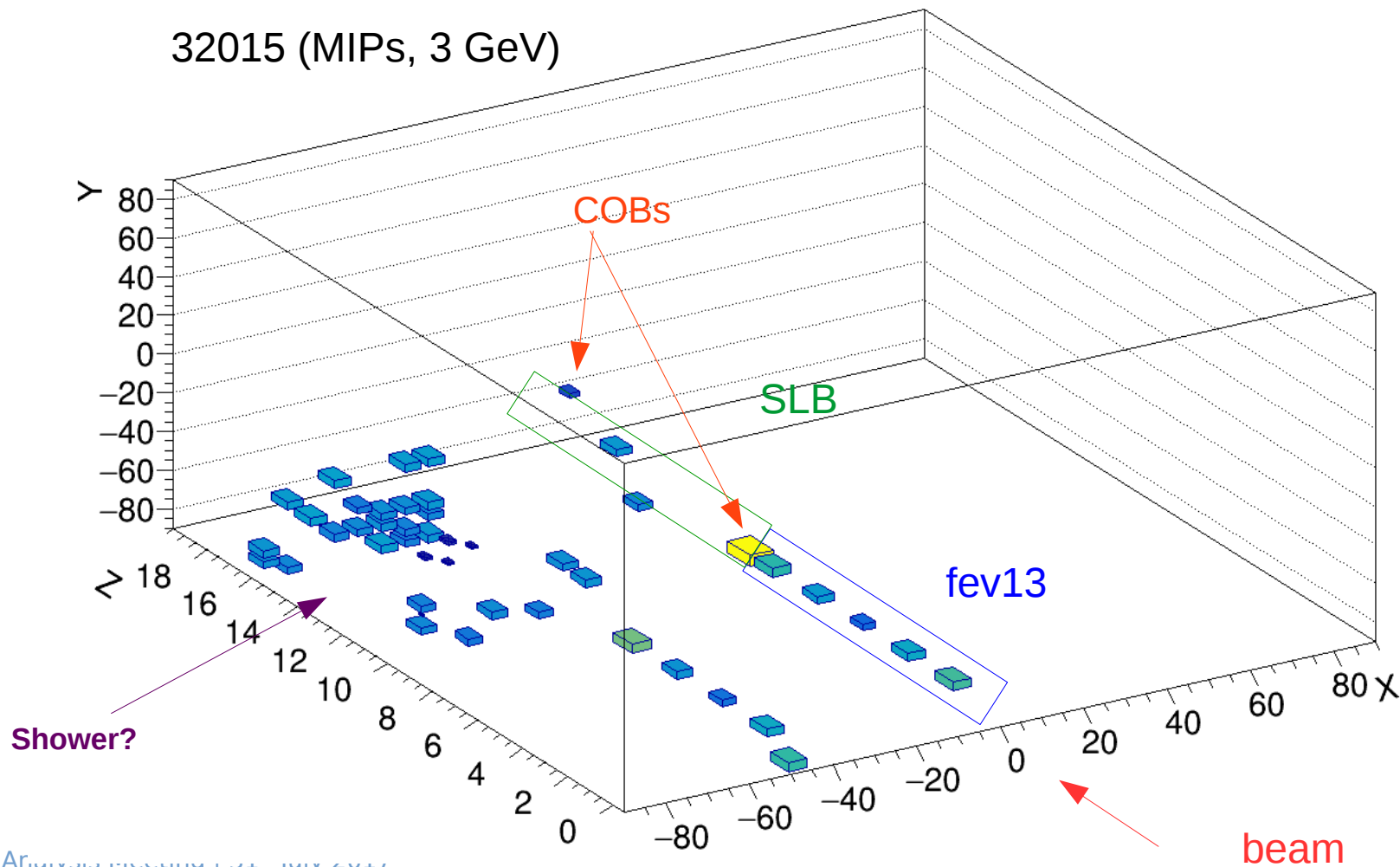
32014 (MIPs, 3 GeV, only SLB in the reconstruction)

Some built events (vey preliminary)

32015

Some built events (vey preliminary)

32015 (MIPs, 3 GeV)

COBs

SLB

fev13

Shower?

beam

Back-up slides

charge__SLB_0_run_32004_chip3

charge__SLB_0_run_32004_chip3	
Entries	454144
Mean	123.7
Std Dev	73.15

● cob_a