

ISMD THIS WEEK: REACTIONS

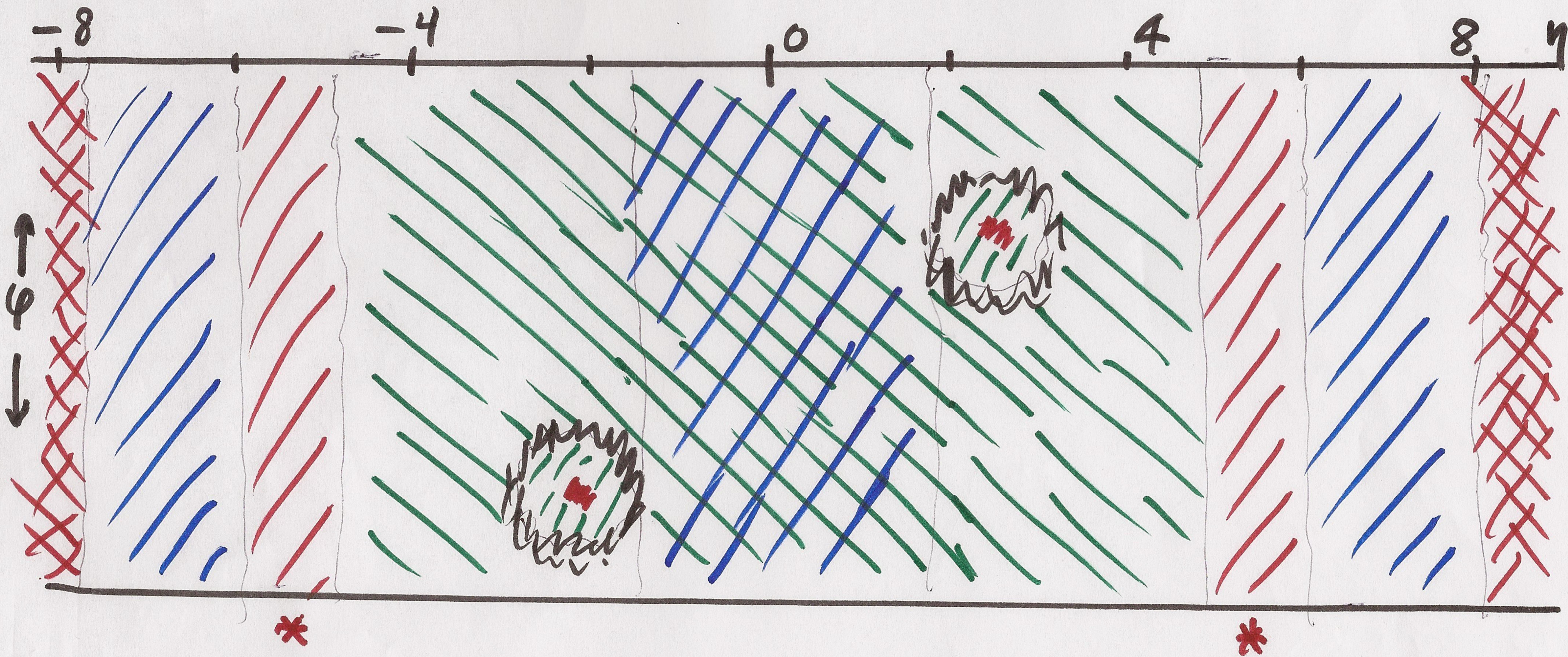
bj
ISMD
20 Sept
2013

1. Underlying events/hole fragmentation

2. Please google "bjorken plumber".

3. Why is the PDF for $x \ll 10^{-4}$??

TWO-JET EVENT : LEGO PLOT



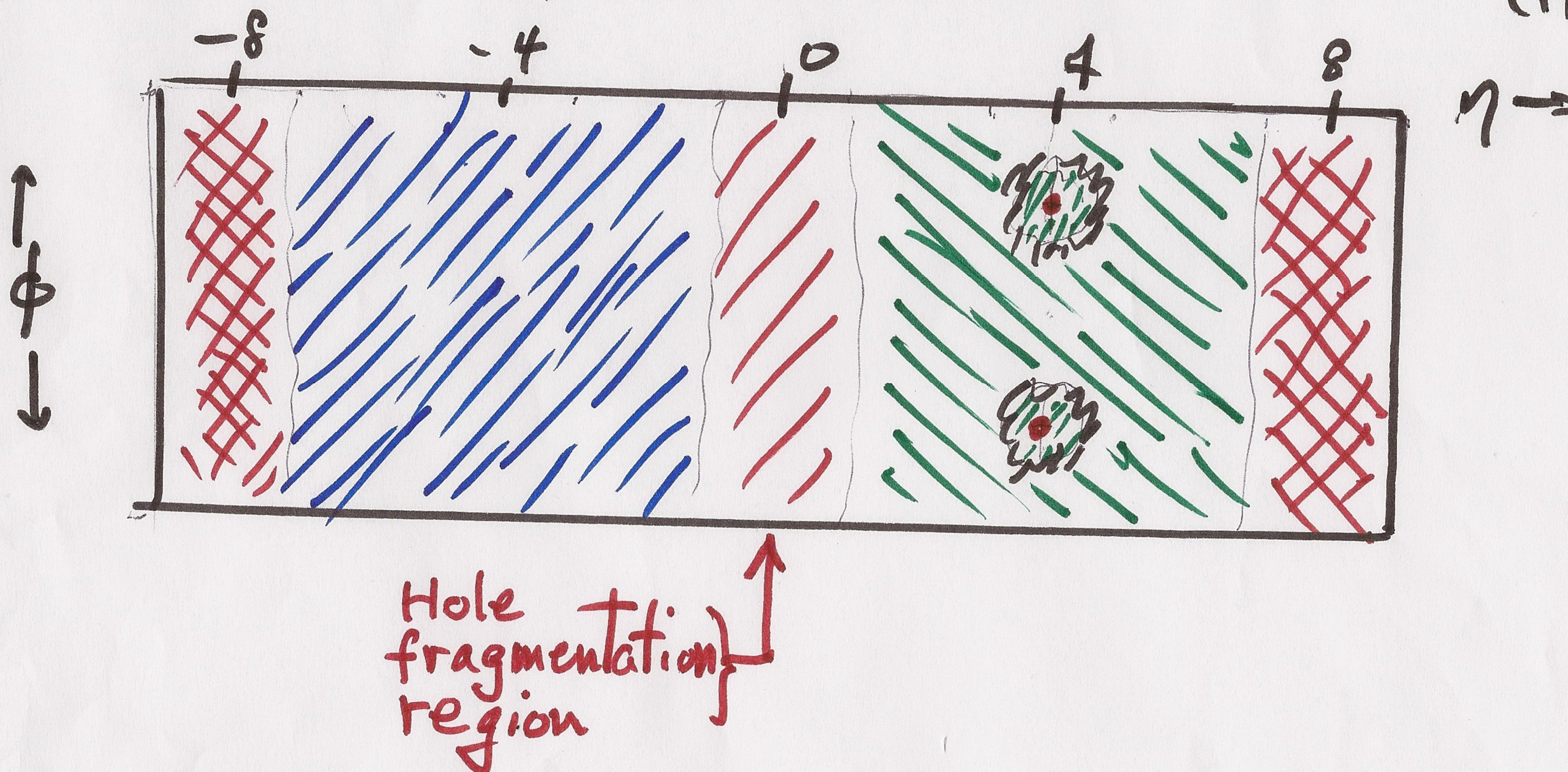
- Beam fragmentation
- Jet fragmentation
- Hole fragmentation

- Hadron plateau
- Jet plateau
- Mixed plateau

Junction region

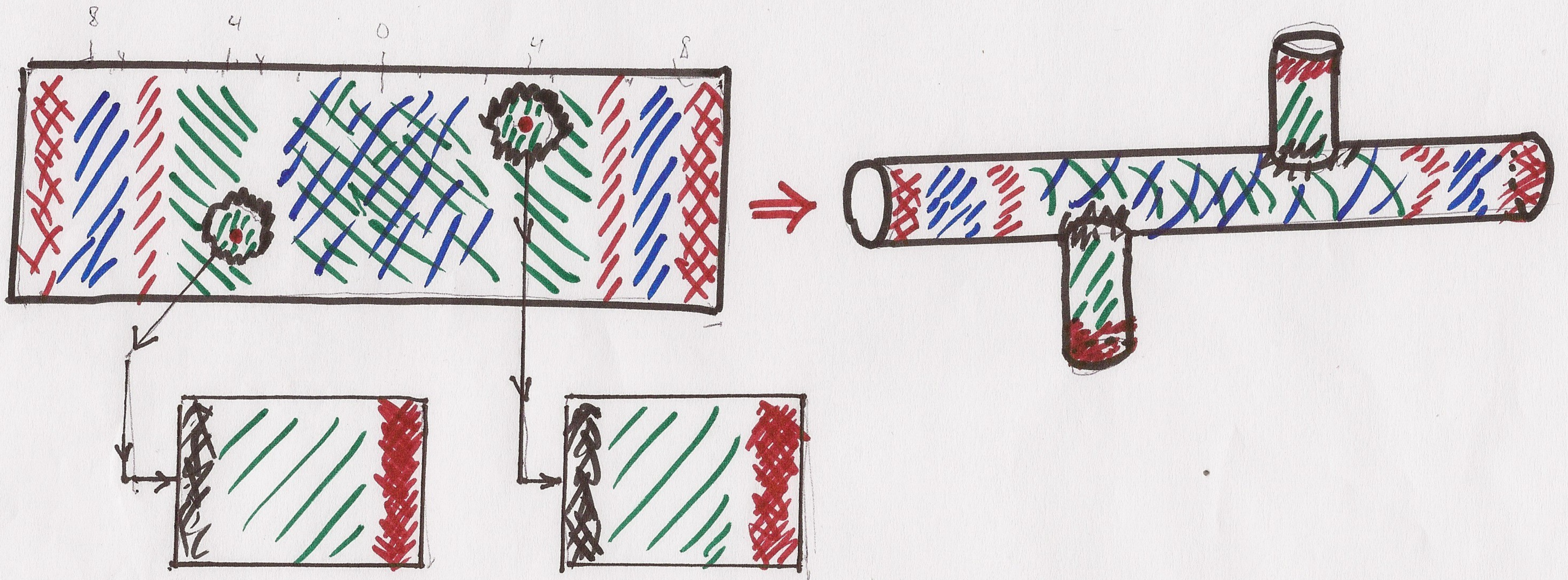
HOLE FRAGMENTATION

(by SLAC-PUB-1114)
(1972)



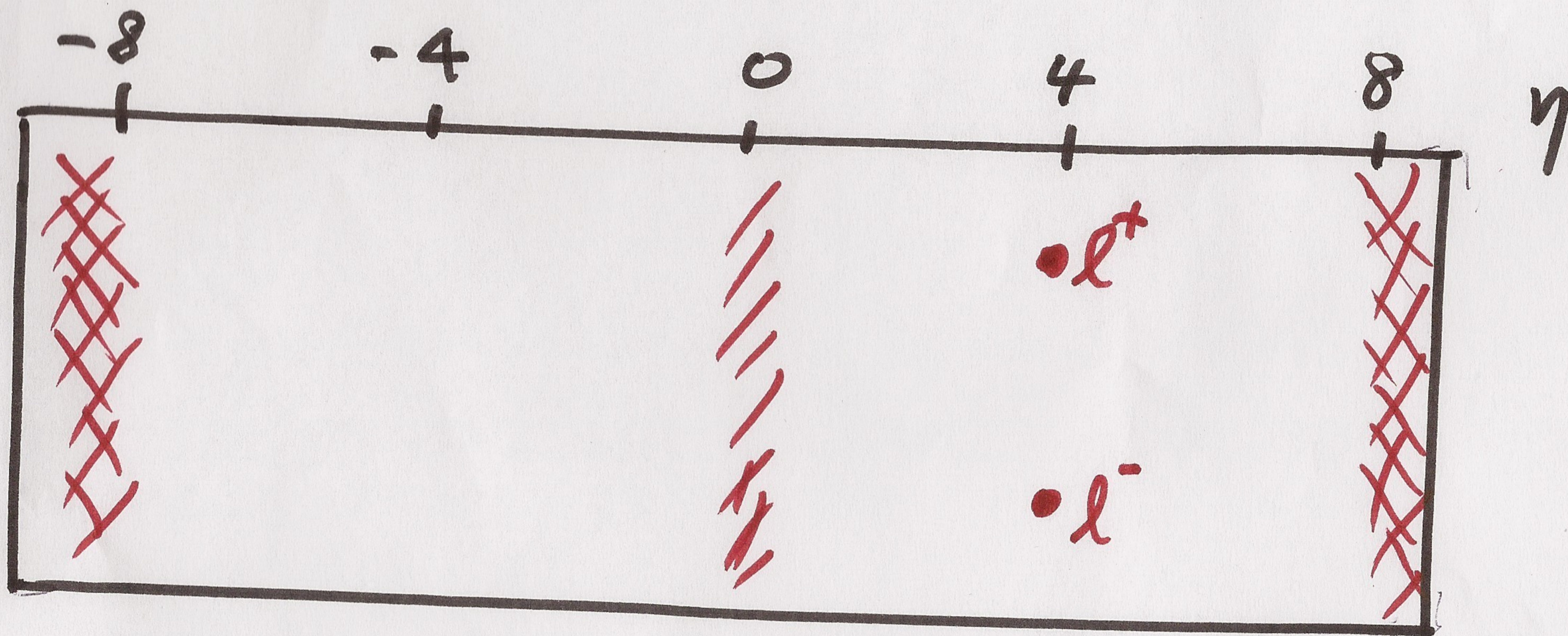
- Symmetric endwall jets tag the sample.
- Hole fragmentation seen in central barrel.
- Adjacent plateaux accessible.

PLUMBING



- Multijet generalization: "plumber's tree"
- Overlapping jets are disentangled.
- Additional tricks in SLAC-PUB-5593 (1991)
- Boosted-jet boosters: please have a look!

PDF AT $x \ll 10^{-4}$



- Drell-Yan :

Dimuon momentum ~ 1 TeV

Dimuon mass $\sim 5-10$ GeV

- Where are the data?

- Where is the analysis?