

Preliminary results for first kinematic setup $P_{miss} \sim 500 \text{ MeV}/c$

by Igor Korover

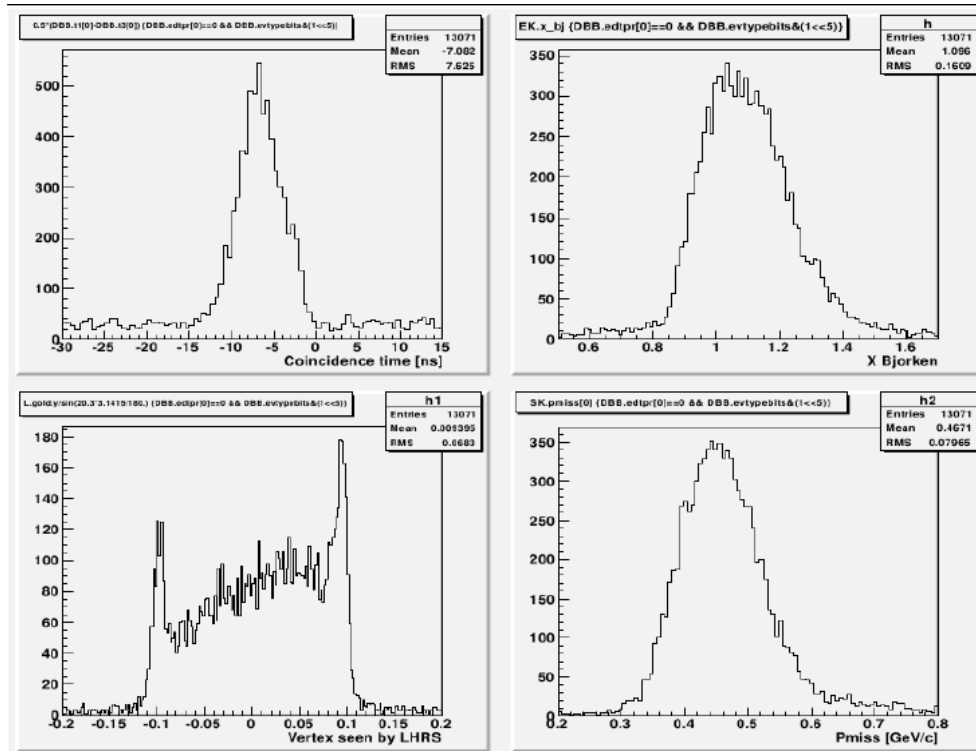


fig 1

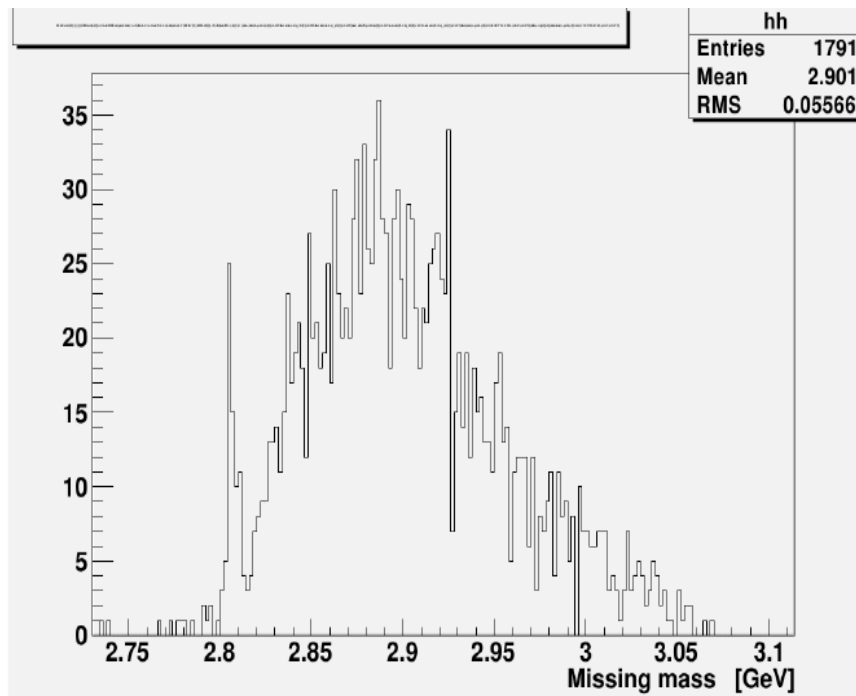


fig2 :Missing mass

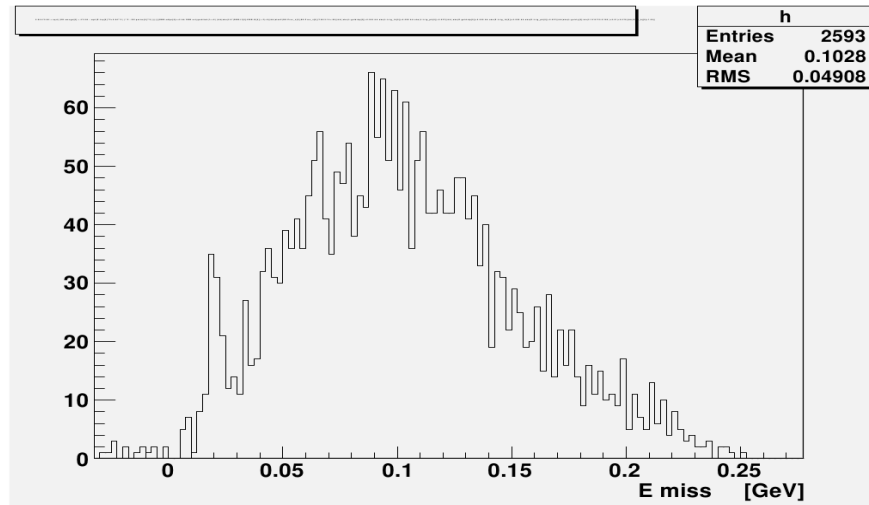


fig 3

Triple coincidence:

Cuts that I use:

1. HRSs nominal cuts (momentum and angles)
2. Coincidence time
3. X Bjorken
4. vertex
5. reconstructed in plane angle of the recoil (by Pmiss) going to angles higher than 80.

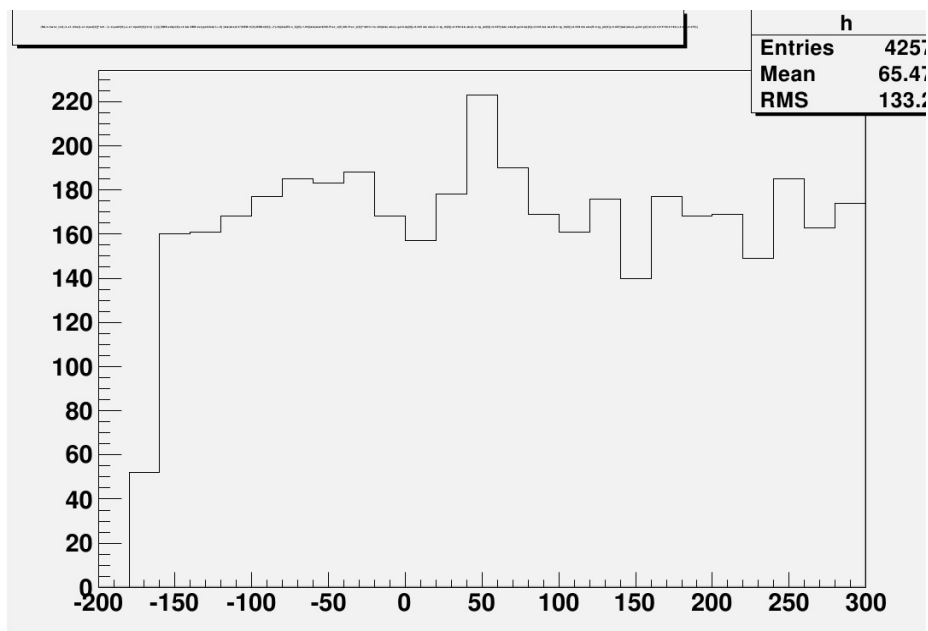


fig 4 (in ns)

- **Problem – How I prevent double counting of neutrons in the peak?**

Online data:
using cuts only on coincidence time between two HRSs and HRSs acceptance in the momentum.
(including the charged particles)

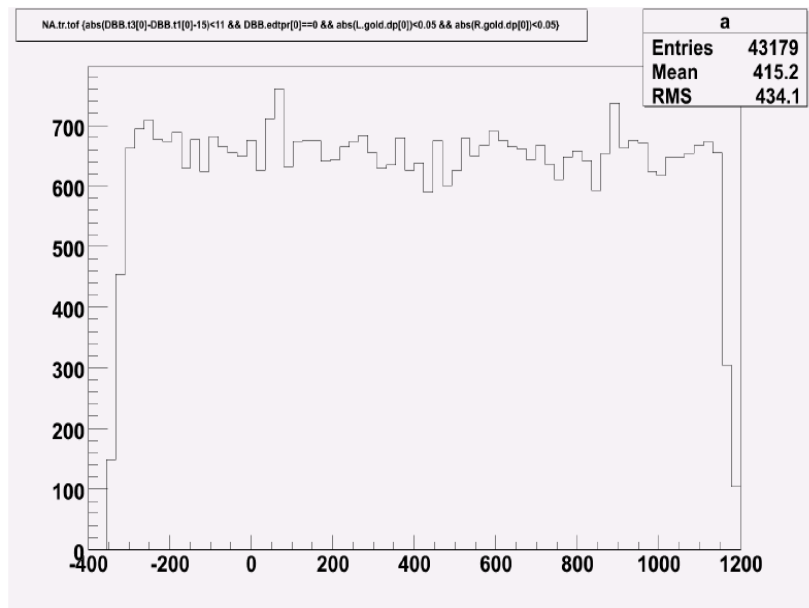


fig 5

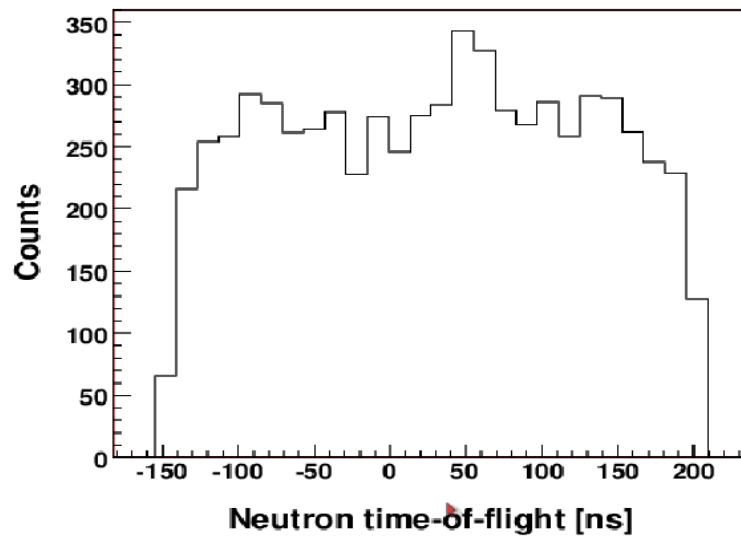
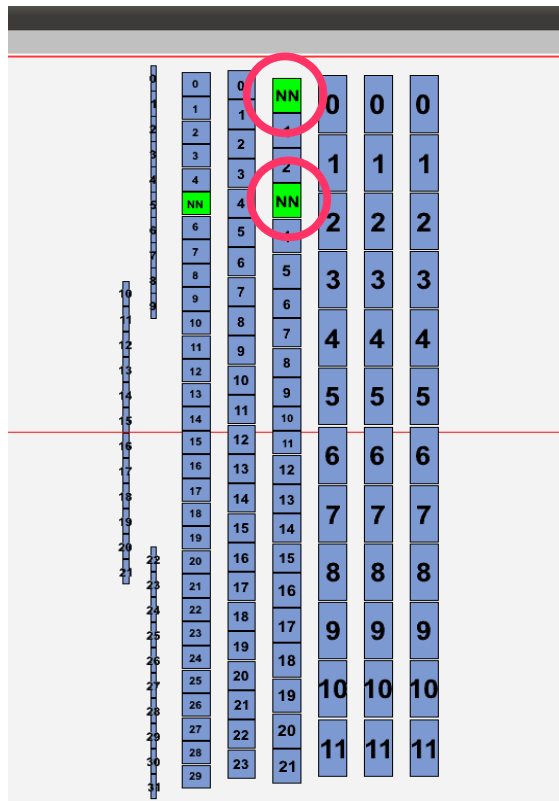


Fig 6. final result from Ramesh Thesis (page 113)

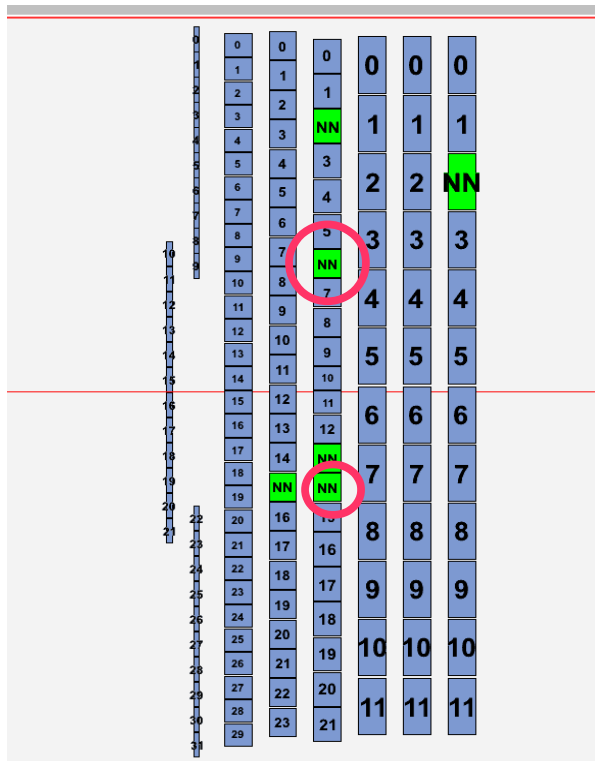
Multi neutron hit examples :

L3N0 – 60 ns
 L3N3 – 46 ns

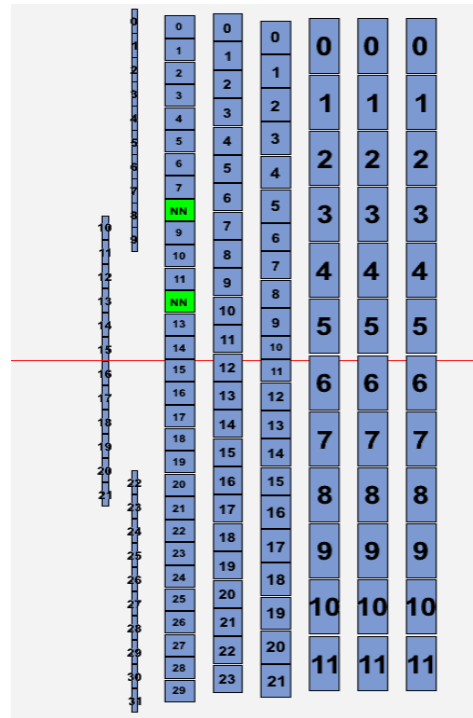


L3N6 – 64 ns
 L3N14 – 65 ns

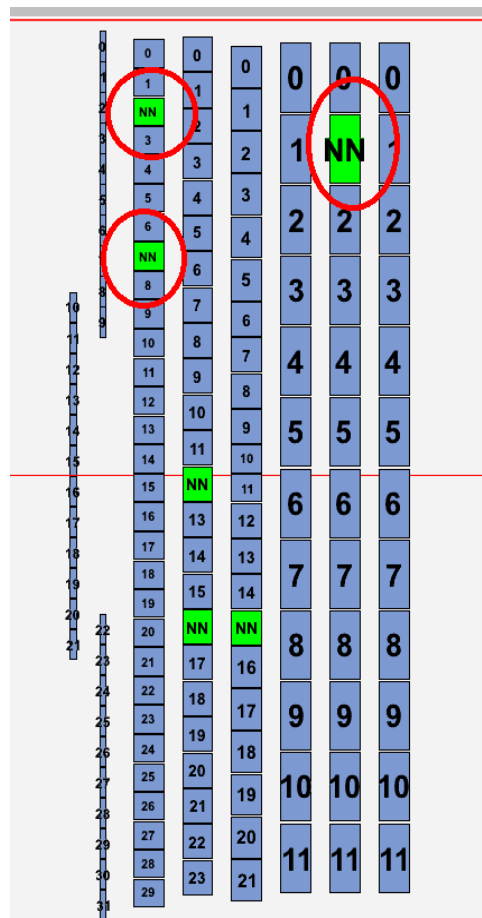
L3N13 – 321 ns
 L2N15 -- -122 ns



L1N8 – 46 ns
 L1N12 – 38 ns



~ 60 ns



L2N6 – 45 ns
L5N1 – 52 ns

