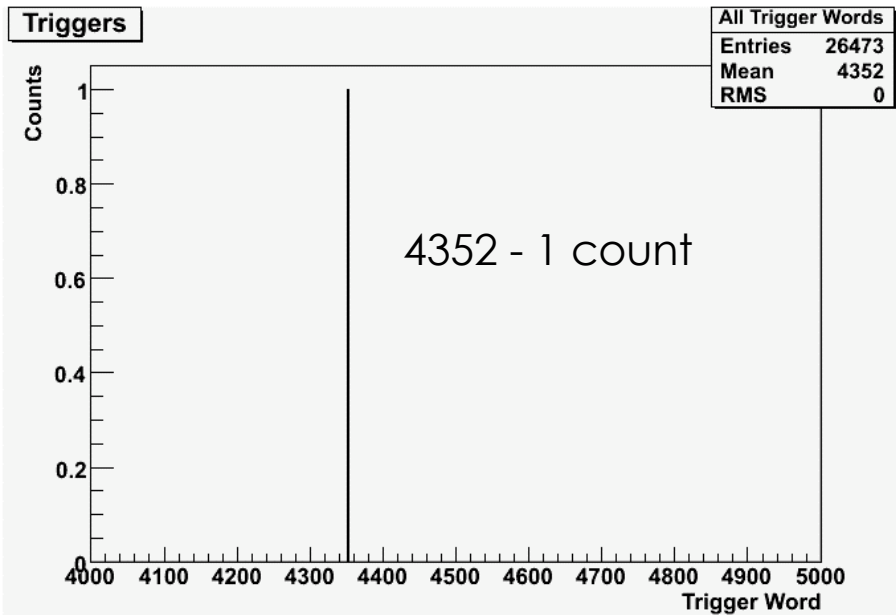


Trigger study

- There are two data samples in this analysis - Minbias and Topology
 - Minbias is assumed to include events with nuclear excitation and the subsequent emission of neutrons
 - Topology is assumed to exclude this nuclear excitation
- To understand the admixture of triggers in these two data samples we can look at the trigger words they contain.



TOPO: Trigger word 12289

CTB < 75

B + Y

Topology cut (L3)

No ZDC

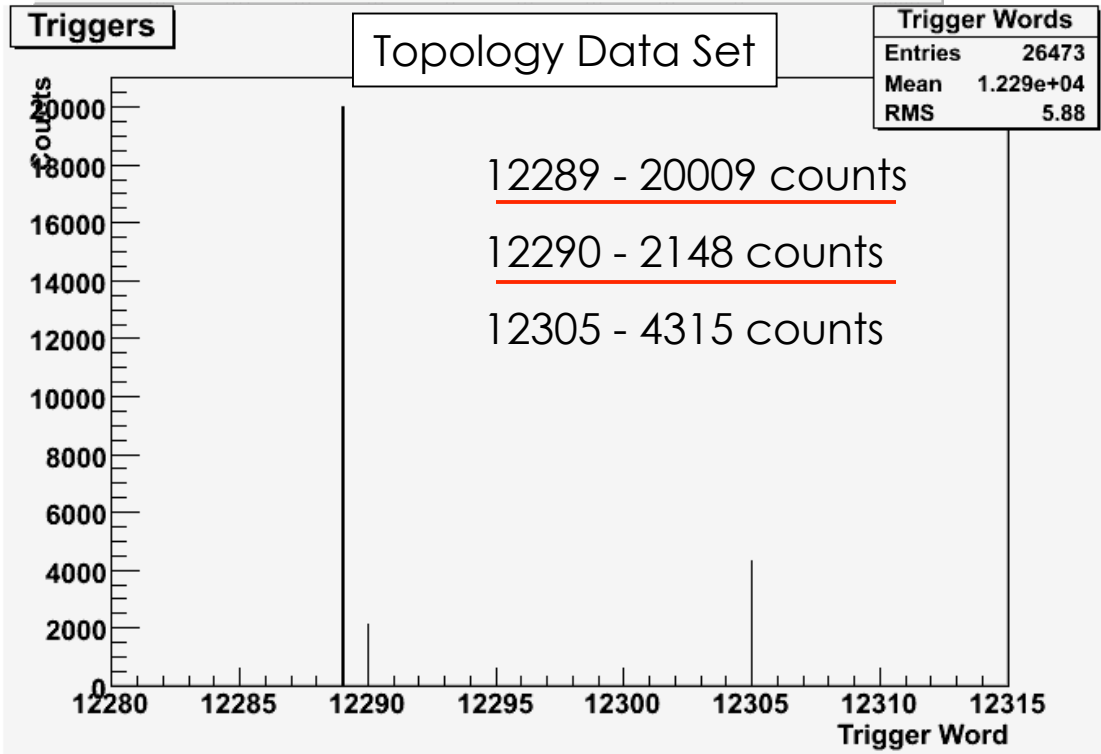
TOPO+ ZDC: Trigger word 12290

CTB < 75

B + Y

Topology cut (L3)

ZDC Coincidence



TOPO efficiency: Trigger word

12305

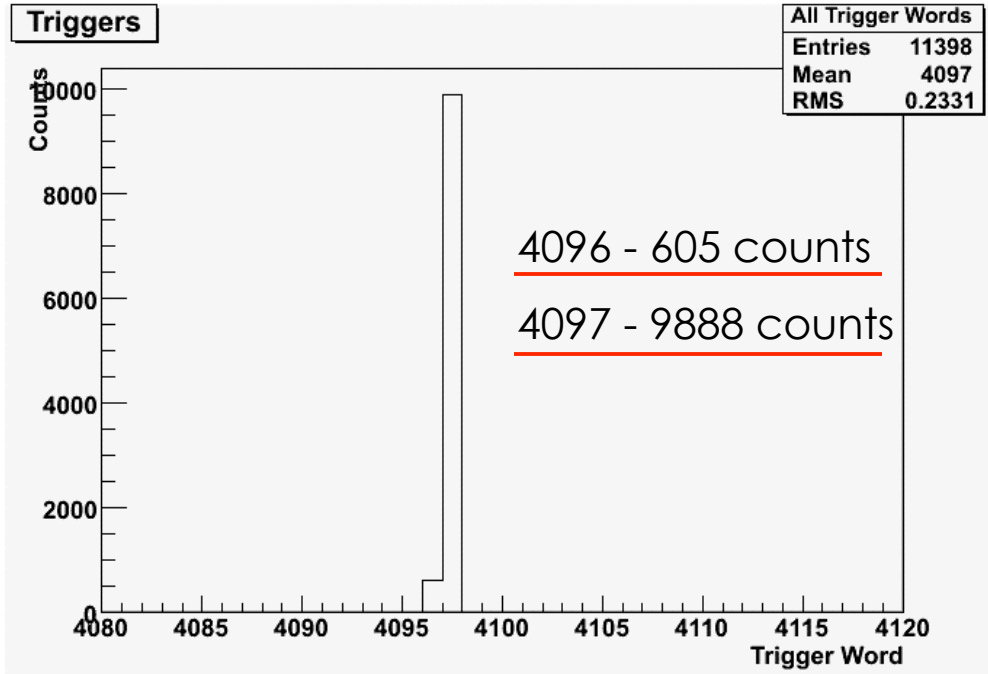
CTB < 75

B + Y

ZDC Coincidence

No topology cut

Most of the triggers include the topology cut. Though there are some events without the topology cut, the analysis cuts mostly exclude triggers without the topology cuts.



TOPO: Trigger word 12289
 CTB < 75
 B + Y
 Topology cut (L3)
 No ZDC

TOPO+ ZDC: Trigger word 12290
 CTB < 75
 B + Y
 Topology cut (L3)
 ZDC Coincidence

UPC Min-Bias
 Trigger word: 4097
 BY Sync+ZDC Coinc.+ZDC Vertex
 CTB ADC < 75

Most of the triggers do not include the topology cut.

