L3 filter options for GLUEX

Graham Heyes - April 10th 2013

Preamble

- There are many ways that a L3 filter could be implemented using components from CODA. Up to this time nobody has implemented a L3. There were plans for CLAS in the 6 GeV program but it was never needed at the CLAS data rates. Vardan has developed a design for a L3 farm manager but how the farm hooks into the online has not been settled.
- The projected GLUEX rates are manageable in terms of data transport and computing power for data manipulation such as event building, disentangling and online filtering. Unfortunately the cost of archiving such a volume of data to tape is, at current pricing, prohibitive. Some form of L3 filter is required before the data goes to tape.
- What form this filter would take was deferred because the first year or so of GLUEX running will be at low luminosity.
- Recently interest has been expressed in having some sort of L3 early.
- This presentation will look at a few options and will hopefully help to start discussion.







