

ECFA LC Workshop, Durham, Sep. 1st 2004

Agenda

| Introduction | G. Eckerlin |
|---|-------------|
| Towards a costed model for LC T/DAQ detectors | P. Le Du |
| Electronics and Data Acquisition for SiLC | J.F. Genat |
| Thoughts on ECAL DAQ | P. Dauncey |
| | |
| Discussion | All |

Boundary Conditions



The rf technology is COLD

1ms active pipeline without hardware trigger 2850 bunches have to be read out and analysed in 199ms some systems integrate over many bx!

The timeline from the WWS OC

roughly costed detector concepts by 2005 CDRs by 2007 LOI by 2008

At least 3 interregional detector concepts

SiD, medium gaseous, large gaseous, maybe more... all need a DAQ for the detector and the accelerator the concept will be ok for all

Consequences



- Cross check data volume and rates with latest designs
 background beamstrahlung (simulated with BDS!)
 event size and channel counts with latest detector designs
 be prepared for new detector technologies
- Towards the first cost estimate can we take the TDR values or do we have to update? are requirements and costs different for the 3 detectors do we need a more detailed design already in 2005?
- Towards the CDR we need to proof with a DAQ demonstrator that it works get more accurate estimates on resources needed filter strategies, calibration issues, controls, monitoring,

How to organize ourself...



DAQ has to be a world wide effort

the detectors are studied on a world wide basis
have to get the DAQ expertise from all three regions
make sure no one is left aside

- How to organize the DAQ working group need conveners from each study one common mailing list world wide
- How to get together ?

do we need a session at each regional workshop (2x3 per year?) does the DAQ sessions have to be broad casted (VRVS or alike) do we need phone meetings?



ECFA LC Workshop, Durham, Sep. 1st 2004

Agenda

Introduction G. Eckerlin

Towards a costed model for LC T/DAQ detectors P. Le Du

Electronics and Data Acquisition for SiLC J.F. Genat

Thoughts on ECAL DAQ P. Dauncey

Discussion



ECFA LC Workshop, Durham, Sep. 1st 2004

Agenda

Introduction G. Eckerlin

Towards a costed model for LC T/DAQ detectors P. Le Du

Electronics and Data Acquisition for SiLC J.F. Genat

Thoughts on ECAL DAQ P. Dauncey

Discussion



ECFA LC Workshop, Durham, Sep. 1st 2004

Agenda

Introduction G. Eckerlin

Towards a costed model for LC T/DAQ detectors P. Le Du

Electronics and Data Acquisition for SiLC J.F. Genat

Thoughts on ECAL DAQ P. Dauncey

Discussion