

## Detector issues

(in addition to those covered under MDI)

### Topics for collaboration:

CLIC detector work at CERN is resuming, good reason for collaboration with ILC community.

- 1) Define a **CLIC detector concept** at 3 TeV.  
(update of 2004 CLIC Study) based on ILC detector concepts.
- 2) **Detector simulations**
  - Simulation tools to be used by ILC and CLIC (WWS software panel)
  - Validation ILC detector options for CLIC at **high energy**, different **time structure** and different **backgrounds**
  - 1 TeV benchmark studies to provide overlap
  - compare performance using defined benchmark processes (e.g. WW/ZZ separation)

## Detectors cont.

- 3) **EUDET /DEVDET** ( infrastructure for LC detector R&D, with associated non-EU groups)
  - microelectronic tools
  - 3D interconnect technologies (for integrated solid state detectors)
  - simulation and reconstruction tools
  - combined test with magnet and LC sub-detectors
  
- 4) **TPC**
  - TPC performance at high energies (>500GeV).
  - TPC read out electronics
  
- 5) **Calorimetry**
  - Dual Readout Calorimetry (feasible at LC?)
  
- 6) **General**
  - increased CLIC participation in future ECFA workshops (2008 Warsaw) on LC detectors