

# Expected LOI contents: final wording of IDAG additional requests

- (1) Detector optimization: identification of the major parameters which drive the total detector cost and its sensitivity to variations of these parameters.
- (2) Plans for getting the necessary R&D results to transform the design concept into a well-defined detector proposal.
- (3) Conceptual design and implementation of the support structures and the dead zones in the detector simulation.
- (4) Sensitivity of different detector components to machine background in the context of the beam parameter space considered in the RDR.
- (5) Calibration and alignment schemes.
- (6) Estimates of overall size, weight, and requirements for crane coverage and shielding.
- (7) Push-pull ability with respect to technical aspects (assembly areas needed, detector transport and connections, time scale) and maintaining the detector performance for a stable and time-efficient operation.
- (8) A statement about energy coverage, identifying the deterioration of the performance at energies up to 1 TeV and the consequent detector upgrades.

# Expected LOI content

- Guidelines given by ILCSC
- More given by RD and IDAG
- About 100 pages + supporting documents
  
- Detector philosophy, sub-detectors and alternatives
- Evaluation of physics performances based on a common process benchmark list
- Integration issues with accelerator
- Status of a realistic detector model
- Identification of state, plans and timescale for required R&D and technological options
- Preliminary cost estimate
- Structure of group and capacity to carry out the work
- Resources needed as function of time for technical design