

Report from CERN Council 17. June 2004

- Switzerland asked for a comprehensive layout of all extra cost like M&O, C&I, LCG2, MoU Computing to be presented in council. CH can only go once to funding agencies to ask for more money.
- DG Aymar mentioned CHIPP as example to copy for other countries
- Operation of PS, SPS during 2006/7 not clear, extra resources needed
- Sweden expects high priority programs of CERN to be funded by the base contribution. Therefore LCG2 (computing phase 2) difficult to give extra funds. --> cost are 137 MCHF of which about 20% are still missing
- Decline of staff by another 16% is a big concern to the DG. Number of fellows can only increase with the start of LHC, but it is not included in the present budget
- Budget deficit increases until 2006 to 971.9 MCHF
- Cryogenic lines in LHC tunnel are on the critical path. Extra effort from company needed to catch up the delay (8 months).

Strategy of DG for CERN

1. Machine, detectors, computing are first priority
2. In depth risk analysis, consequences of failure of old equipment, estimate 35 MCHF
3. Define new fixed target program (Cogne meeting autumn 2004)
4. 2004-2006 different studies in cooperation with other laboratories
 - FP6 CARE program
 - LINAC4 (160 MeV H⁻)
 - Next European Dipol (NED) aiming at 15 T
 - New tracker for ATLAS and CMS to withstand 10x luminosity
 - EUROTEV (generic R&D for e⁺e⁻ collider)
 - Keep in touch with Eurisol and SIS100
5. Decide in 2006 on LINAC4, depends on funds available
6. Accelerate CLIC R&D to arrive by 2010 to a firm conclusion
7. 2009-2010 redefine CERN strategy --> new director

Linear Collider

- International team will give until end of 2004 a recommendation for a technology for a 0.5-1 TeV linear collider
- Large laboratories are asked to host an international design team. R. Eichler among the 6 referees to select the best site for design team.
- Extraordinary Council meeting in Rome 19. July 2004
 - Presentations of J. Dorfan (ICFA chairman) and A. Wagner (DESY)
 - Discussion on rôle of CERN and European strategy towards LC
- Proposal for our opinion
 - CERN has to concentrate on LHC and CLIC until 2010
 - CERN can not invest in a LC before 2009 but should be open for a collaboration afterwards
 - CERN has only a future, if particle physics remains strong worldwide. Therefore CERN should (actively) follow the work of an international design group of a 0.5-1 TeV collider.
 - CERN could participate with 2-5 people in the design team. The knowledge acquired is most likely also relevant and helpful for CLIC
 - It is very doubtful if the technology of CLIC is ripe for a decision in 2010 and it could turn out that a low energy collider is the best choice at that time.

Message from Aymar at EPAC04 in Lucerne

- Limit number of large laboratories by (re)using existing facilities
- Concept of a strong lead region/country is most realistic
- Favour in each region/country the project which optimally uses existing resources and existing forms of organisation
- Global collaboration should replace competition
- Need large scale coordination of high projects. Body for such a coordination could be the OECD global science forum (good for a start but not ideal)