

Possible CERN Contributions to ATF2

D. Schulte

F. Zimmermann

- Requested more resources for CTF3, so can only offer existing equipment and studies

Studies

- Development of commissioning strategy
 - F. Zimmermann already wrote that section of the proposal
 - determination of optimum beam-based alignment, with pertinent specifications of BPM ranges
 - Simulation of IP tuning and finding of maximum knob tuning range
 - Survey of relevant collective effects in ATF2 and ATF extraction line, in particular wakefields

Hardware

- A stabilisation table including the stabilising feet (≈ 100 kCHF)
 - has been used in the CERN stability study
 - will be further used by LAPP (Annecy)
 - would be available after the middle of next year
 - need to identify best use
- Three high precision transformer BPMs (development ≈ 160 kCHF+manpower, co-financed by EU)
 - resolution: 100nm, in time: 15ns, aperture: 4mm
 - available end of 2007