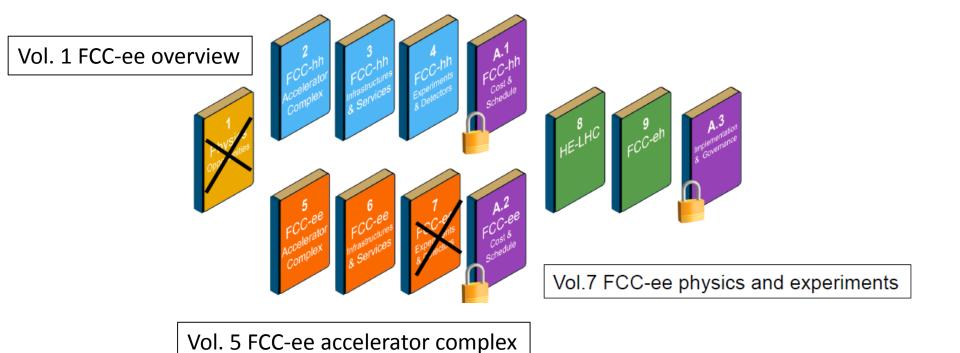
2d FCC-ee Energy calibration working group meeting 13-01-2017 some news

FCC week 2017 in Berlin (29 May-2 June 2017)

- https://indico.cern.ch/event/556692/
 - early fees deadline postponed until 5 February 2017.
 - 173 participants so far : Register!
 - Preliminary timetable <u>here</u>
- The FCC week will give the opportunity to the FCC Advisory Board (*) to review us
 - Slight change in format and scope since the FCC week in Rome
- The European Strategy update will be approved in May 2020
 - European strategy meeting at the end of 2019, CDR distributed Spring 2019
 - CDR ready for print at the end of 2018.

We will have a session at Berlin on Energy Calibration and Polarization

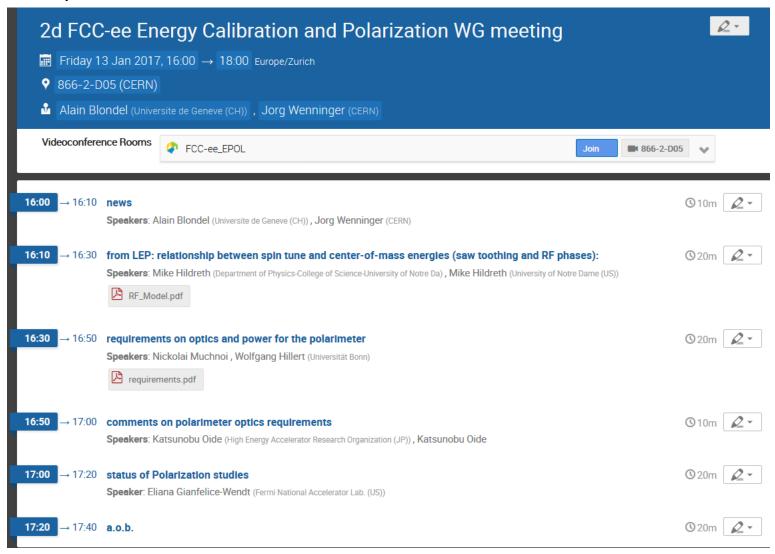
→ will this be included in the review material?



There should be a section in the Vol. 5 about beam polarization and energy calibration describing in particular design and integration of specific equipement (polarimeter, wigglers, various correction schemes and online-control of energy, follow up on tides etc..) as well as simulation results, and some of the systematic errors on beam and center-of-mass energy.

There should also be section(s) in the FCC-ee physics that specifies the scan parameters and propagation of energy errors on physics parameters, for Z, WW and H.

Today:



Apologies from W. Hillert – we should reschedule his talk...

Other news:

-- we contacted Attilio Milanese for the design of the polarization wigglers according to the LEP emittance/damping wigglers ->

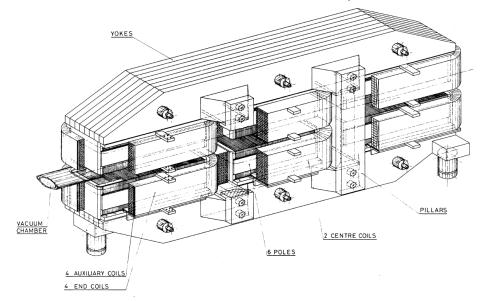
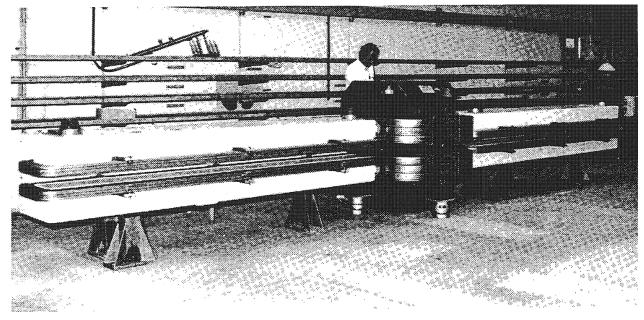


Fig. 3 Proposed LEP wiggler magnet

!not the polarization wigglers which were difficult to operate!.



I've been running some 2D to have a first look at this magnet, keeping a design similar to the LEP emittance wigglers (not the later LEP polarization ones). As a first guess I kept:

- the same vertical aperture of the dipole, 90 mm
- a central field of B+ 0.7 T
- a central length L+ of 740 mm
- · a ratio L-/L+ of 4

Here's how the field would look longitudinally through half the magnet.

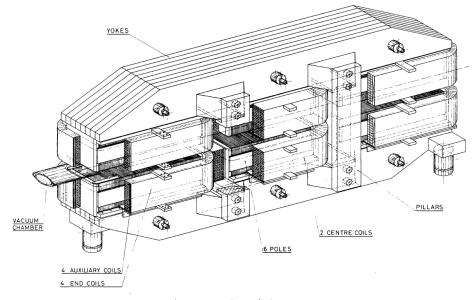


Fig. 3 Proposed LEP wiggler magnet

