

Minutes of the FCC-hh Design Meeting March 25, 2014.

Slides at <http://indico.cern.ch/event/308561/>

A link to the baseline parameter document can be found at the same location.

Presentations:

Daniel Schulte introduced the scope of the study for 2014 and listed the questions that need to be addressed for the baseline definition early in 2015. Two documents are available on the INDICO page of the meeting: The baseline parameter document and a draft of the list of topics that need to be addressed in order to be able to define the FCC-hh baseline.

Roman Martin presented some details of the current experimentation insertion design.

Bernhard Holzer presented first considerations of the arc lattice cell design.

Conclusions:

We should compare a racetrack layout with an LHC-type layout since each seems to have advantages and disadvantages. For the racetrack design it should be investigated whether it is better to have one of the two main experiments in each of the straight sections or whether both experiments should be in the same straight sections.

The beta-function in the experimental insertions is critical for the choice of baseline parameters.

The cell length in the arc should be about 200m.

Actions:

Please read the baseline parameter document and send comments to daniel.schulte@cern.ch

Volunteers for lattice design work should please contact daniel.schulte@cern.ch

Rogelio Tomas will discuss with the magnet and radiation experts to obtain a more detailed understanding of the constraints on the system design.