

# Proposed TOC FCC-ee after discussion with Panos and Tor

## 1 FCC-ee Design & Performance

- 1.1 Design challenges, approaches, and parameters incl. top-up injection
- 1.2 Beam optics, layout, and magnets, incl. tolerances, correction and emittance tuning
- 1.3 Vacuum design and collective effects
- 1.4 Collimation
- 1.5 Machine Detector Interface (MDI) challenges and design
- 1.6 Energy Calibration and polarisation
- 1.7 Booster
- 1.8 FCC Pre-injector Complex (1.8.1 Linac, 1.8.1 Transfer lines)
- 1.9 Operation and performance (efficiency, physics goals, RF staging, machine protection, ...)
- 1.11 On-going studies and possible upgrades
- 1.12 Dismantling FCC-ee

## 2. FCC-ee Technical Systems

- 2.1 Introduction
- 2.2 Main magnets
- 2.3 Vacuum system and electron-cloud mitigation
- 2.4 Radiofrequency systems
- 2.5 Beam Intercepting Devices (halo collimators, beam dumps)
- 2.7 Beam Transfer Systems & Separators
- 2.8 Beam diagnostics requirements (beam position, beam size/length, beam loss, beam current, polarization & spectrometry)
- 2.9 Control systems
- 2.10 Radiation environment

Michael suggested adding section on "specifications" (alignment, magnet errors, diagnostics,..)



# Proposed TOC FCC-hh after discussion with Panos and Tor

## 3 FCC-hh Design & Performance

- 3.1. Design challenges, approaches, and parameters
- 3.2. Beam Optics & Layout
- 3.3 Collimation
- 3.4 FCC-hh injector options
- 3.5 **Synergies between FCC-ee/FCC-hh** (transfer lines/SRF system/power system...)
- 3.6 Ongoing studies

## 4 FCC-hh Technical Systems

- 4.1 High-field magnet options and R&D lines
- 4.2 Summary of other systems (vacuum, cooling)

