

## **Open points from FCC-ee design meeting #14, 2 March 2015**

### Dynamic aperture studies

- Compute and plot x and y dynamic aperture separately, and consider 1% vertical/horizontal emittance for the vertical sigma
- Check on momentum dynamic aperture for different phase advances in the arcs

### Optics studies

- MAD-X bug for solenoid of zero field – Information from G. Roy: problem is due to the large rotation angle, not to the zero field.

### Impedance and collective effects

- Applicability of the thick-wall RW formula for 2-mm Al chamber at  $<3$  kHz
- Confirm ABCI result for 2.3 mm bunch length with CST (if possible)
- Simulation of microwave instability (?)
- Studies of TCMI and HT instabilities (including high nonlinear chromaticity)