Status of BB contributions to the Feasibility Study Report

- **II.1.1   Beam-beam effects, parameter choices, and luminosity**

    → Mostly done: Beamstrahlung, 3D flip-flop, X-Z

    → To do ? Asymmetry tolerance (intensity, emittance, beta*)

- **II.1.2   Optics design and beam dynamics**

    → update parameter table / tune scan plots with beta* = 110mm RF=88MV ? Qx/Qy = 218.20 / 222.22 (222.23?)

- **II.1.4.5 Interplay between beam-beam and beam coupling impedance effects**

    → Mostly done: X-Z + (vertical) mode coupling instability of colliding beams, mitigation with chromaticity

- **II.1.8   Injection and extraction**

    → Done: SS BB simulation of top up injection

- **II.2 Operation concept – Bootstrap injection**

    – To do: X-Z with varying intensity

- **II.2 Operation concept – top-up injection**

    – To do? Impact of 3D flip-flop tolerance on intensity control

- **II.1.2   Optics design and beam dynamics**

    – To do? Impact of 3D flip-flop tolerance on optics tuning

- To do? IP tuning / feedback

- Collimation ?