KURRI FFAG MEETING 19/10/2016
12:30
BlueJeans

Attendees:
S. Sheehy, D. Kelliher, S Machida - RAL
M Haj Tahar, F. Meot, J. S. Berg - BNL
Y Ishi, T Uesugi - KURRI

Minutes:

1. Report on the machine status by Ishi-san.
   - All machine is up.
   - Need realignment of RFQ because there is no steering magnets before RFQ.
   - Interlock modules has to be replaced.
   - Current schedule is to up the ring with beams in December.
   - Possibly, we can have machine development time in January or later.
2. Malek describes DA study.
   - Found there was non zero (although very small) Bx and By components on the mid-plane of TOSCA 3D data, which destroys antisymmetry.
   - Ensuring the antisymmetry increases DA around the injection.
   - Without fixing, DA is similar with and without vertical finite amplitude.
   - Different k-value in D and F magnet sometimes increase and sometimes decrease DA.
   - Vertical dynamic aperture is more important. However, we have to extrapolate beyond the region available.
3. Shinji discussed 2D and 3D field.
   - Btheta and Br is very linear with respect to z.
   - Btheta does not agree in 2D and 3D in the middle of F and D.
   - Br does not agree in 2D and 3D in the fringe field region.
   - Francois suggests Enge model as a global fitting function.
   - Scott proposes the good fitting of 2D mid-plane field. If we can get decent model, it derivatives tells how high order of z we should take into account.
4. Shinji went through experiment item in coming month.
   - Optimisation of RF programme.
   - Tomography in longitudinal space.
   - Beam loss during acceleration.
   - Coupling between H and V.
   - Dynamic aperture in H.
   - RF stacking on the outer orbits. This is a crucial demonstration for future FFAG design.
5. Next meeting
   - 30 November 2016.