KURRI FFAG MEETING 8/4/2015
Google+ hangout meeting

Attendees:
Y. Ishi, T. Uesugi, Y.Mori, KURRI
D. Kelliher, S. Machida, S. Sheehy, RAL
M. Haj Tahar, BNL
A. Adelmann, PSI
S. Berg, BNL

Minutes:

1. David presented an anlysis of the beam size and profile from bunch monitor data.
    - He uses the amplitude peaks of bunch monitor data then uses the derivative of the fall-off as the beam is lost on a probe.
    - The analysis could be affected if the phase space is "hollow"
    - Shinji noted that with dispersion the betatron oscillations are not around a single fixed point but a spread of points. Need to compare this to the effects being studied.
    - Malek discussed adiabatic damping – for the scaling FFAG this goes faster than normal synchrotron adiabatic damping
    - David noted that the profile becomes more Gaussian as acceleration progresses
2. Suzie gave a brief update on simulation progress in OPAL, single particle tracking is progressing to include in the IPAC simulation paper.
3. Malek presented a study comparing ZGOUBI tracking results to analytical formulae. He also started looking at the DA using field maps (will re-visit this as large vertical excursion was using ZGOUBI field extrapolation.
4. Shinji presented an outline of the IPAC'15 simulation paper which has been drafted and is in progress (due internally in ASTeC 15th April)
5. Mori-san circulated a previous comparison of simulated and measured tunes in a similar FFAG between 9-100MeV. This should go on the hadron.kek server
6. Ishi-san presented an update on the machine status.
    - After a number of issues they will attempt to get the linac back up and running as soon as possible.
    - A number of extra magnets have been removed including transport lines from ion beta to the booster and booster to main ring.
    - 3 additional ports for radially movable probes have been created, at present 4 radial movers are available, 2 more need repair. The COD will need re-measuring with this setup now the extra magnets have been removed.
    - We don't expect the tunes to vary significantly after Shinji's study looking at tunes with varying kick strengths and locations.
7. The next meeting should be 14th May 1pm UK time, 9pm Japanese time.