

KURRI FFAG MEETING 17/7/2014

Google+ hangout meeting

Attendees:

KURRI, RAL, BNL, Imperial

Minutes

1. Ishi-san proposed a change in 'convention' for dispersion matching. See his slides for details. After discussion it was agreed to have the matching point at the slit as suggested but it would also be useful to have a standard conversion to dispersion values at the foil (established previously for standard ring setup by tracking), as it is the variation/matching at the foil that really matters.
2. Ludovic presented an update on the dispersion measurements which shows that the measured value of dispersion at the slit is less than half of the calculated value. This could be due to using the wrong conversion factor of the current to field strength in the quadrupoles (a 9% difference in this number would lead to a 50% difference in the calculated dispersion...) so this conversion will be re-measured by the KURRI team. He also presented the first measurement of D' at the foil which was calculated to be -0.54 rad.
3. Ishi-san discussed that with the present setup dispersion mismatch could cause some limitations as the beam behaviour is 'peaky' in momentum.
4. Suzie discussed plans for the first paper. She will make a first draft attempt and then we will identify sections of work that are needed to complete. There was a suggestion to attempt to extract from the energy loss measurement some information about scattering or perhaps emittance growth from other measurements. We should think about including a 'first glimpse' of this in the present paper, but it is a key topic for the next step.
5. The next meeting is planned for 7th August.