

## KURRI FFLAG MEETING 4/9/2014

### Google+ hangout meeting

#### Attendees:

KURRI, RAL

#### Minutes

1. Liu Shiang presented a measurement to observe and match the beam vertically
  - profile will oscillate at one azimuthal position if mismatched
  - fluorescent monitor installed with camera, image analysis described in presentation
  - S. Machida noted that the profiles are taken after one turn only
2. Uesugi-san presented a measurement of dispersion at the slit using 'real' momentum method rather than equivalent momentum method.
  - To cross-check they did a measurement changing the actual energy by adjusting the linac tank field, this produced a 100ps TOF difference,  $\Delta p/p = \pm 3\%$
  - Dispersion at the slit measured to be 0.2-0.3m which is consistent with Ludovic's previous method, but not consistent with the theoretical value of 0.4 from SAD
  - Field strength of Quad magnet current  $\rightarrow$  field conversion is a constant, it was suggested that this is measured again. Also has some implications for the assumed beta-function.
  - **ACTION TO DO:** change the calibration constant by a few % in the simulation and see how the model result changes. It could produce the difference we observe as we are in a high  $\eta$ ' region so  $\eta$  varies rapidly.
3. Ishi-san gave us an update on the machine:
  - the unused iron steering magnet that was in the ionBeta line has been removed
  - a radial probe has been removed
  - Trying to set the machine up so the corrector can be raised for operation without losing beam
  - Plans to measure the COD & tune again now this work has been done
  - The machine schedule was circulated, a tentative idea of experiments in mid-November was discussed, and sometime between Jan-March 2015 also (perhaps concentrating on new RF cavity?)
4. David presented his work on the effect of dispersion on COD measurement
  - this is ongoing work to try to determine whether the variation of dispersion we observe between the 3 probes is due to the COD. It looks likely this is the case, but it is not yet finalised.

5. Towards the first paper, a list of people who can contribute to different sections is being put together. Ishi-san and Suzie are both presenting talks at FFAG'14, and Uesugi-san will also discuss the RF.
  - **ACTION TO DO:** please let Suzie know which section of the paper you will contribute to. At the next meeting she will try to produce a list of names for different items. Don't worry, this will probably change over time.
6. The next meeting will be organised by doodle poll after the FFAG'14 workshop in early-mid October.