

KURRI-FFAG MEETING 24/05/2018 BlueJeans VC meeting

D. Kelliher, S. Machida, C. Prior, C. Rogers, J. B. Lagrange – RAL/ISIS/STFC

S. Sheehy – Oxford

Y. Mori, Y. Ishi, T. Uesugi, H. Okita – KURNS (formerly KURRI)

1. Ishi-san gave a KURNS update on MERIT studies.
2. JB Lagrange – Experimental studies presentation.
 - Outlined two main experiments we plan to pursue: rf optimization and beam loss measurement. A question arose re. script for rf optimization.

Action: KURNS team will check status of script/control over rf parameters

- Identification of beam loss during acceleration
 - Tune measurement: excitation of coherent oscillation. Additional RF (for vertical) horizontal (movable perturbator which generates horizontal kick)
 - Want to establish 1-1 correspondence between beam loss and resonance lines. Cannot measure tune at positions exactly on resonance.
 - Effects of new RF cavity will mean that measurements will be different from previous runs!
 - Ishi-san mentions that they can measure tune during acceleration. We can use both methods and compare.
 - Discussion on best method for tune measurement...
- 3. Discussions:
 - Mori-san: Acronym 'FFA' has been used on homepage of next workshop website. After discussion, they have picked up acronym of FFA (also discussed with IOC).
 - If 'Fixed Field Accelerators' – should we also then include ordinary 'fixed field accelerator' (RLA, cyclotron) to also expand the scope of the workshop? For now, we will keep the workshop as it is (FFA means Fixed Field Alternating Gradient for now...), but changing the acronym may give us a possibility to expand the scope of the workshop.
 - Chris Prior has agreed to do another issue of the ICFA Beam Dynamics Issue – and as editor, Chris will include an explanation of the change of acronym.
 - Suzie mentions that Adelmann et al., at PSI are looking to start work on designing new PSI 'afterburner' idea. Suzie is visiting them in late June for 1 day to discuss and share or show them how to use PyZGOUBI...
- 4. From next month STFC will use Zoom instead of BlueJeans for videoconference.

5. Next meeting: 28th June