

KURRI FFAG MEETING 18/12/2014
Google+ hangout meeting

Attendees:

Y. Ishi, T. Uesugi, KURRI
D. Kelliher, S. Machida, C. Rogers, C. Prior, RAL
M. Haj Tahar, S. Berg, BNL
J.B. Lagrange, Imperial

Minutes:

1. Ishi-san shows the update of this tune calculation based on 3D field map. With finer step size, the agreement between EARLIETIME and Zgoubi becomes better.
2. Interpolation in EARLIETIME is linear and Zgoubi is 2nd order, which does not seem to make difference in tune.
3. There is a comment that step size smaller than mesh size does not improve the accuracy. In particular, with linear interpolation, small step size does not have benefit of 4th order Runge-Kutta.
4. Machida goes through the simulation plan document quickly.
5. Huddersfield people are interested in the simulation efforts.
6. Malek reported that they are including space charge model in Zgoubi. At the beginning, it is a simple model like uniform distribution on the analytical field model.
7. This sort of modeling efforts will be also included in the step 2 of generic benchmark efforts.
8. David shows his modeling of COD and the dispersion function.
9. Shinji shows his modeling of COD and the dispersion function.
10. Scott asked if there is any model calculation on the efforts of the MA with stray fields. It would be interesting if the field is pure dipole or has gradient. Shinji commented Huddersfield is interested in the modeling. Uesugi-san already sent a drawing to Suzie. B-H curve is also necessary.
11. Next meeting will be probably in 4 weeks time, 15 January 2015.