

Minutes of KURNS Video Conference meeting 8 May 2019

attendees: Y. Ishi (YI), JB. Lagrange (JB), S. Machida (SM), D. Kelliher (DK),
T. Uesugi (TU), C. Rogers (CR), C. Brown (CB)

January 23, 2020

1 KURNS plans (YI)

- ◇ machine not working at the moment. Study of measurement of cavity voltage in February needs removal of the cavity.
- ◇ schedule: machine schedule not ready for the moment, several people interested in beam time to use for various experiment. ADS experiment scheduled this autumn. Short beam experiment in March (measurement of cross-section of neutron production). Preference for a beam experiment from RAL in June or at the end of the year.

2 Analysis on adiabaticity experiment (DK)

- ◇ Preliminary results on adiabaticity, with results different from simulations. Threshold or gradual change question not answered yet.
- ◇ Question on error bar from Ishi san.
- ◇ Question on value of maximum adiabaticity computed in experiment.
- ◇ Strange point at adiabaticity=0.2, disagree with general trend.
- ◇ Losses to be checked, as analysis done with tomography cannot detect it.

3 Analysis on adiabaticity (debunch and rebunch) (SM)

- ◇ experiment crucial for beam stacking.
- ◇ Results show lower efficiency recapture with increasing adiabaticity parameter as expected.
- ◇ lowest adiabaticity parameter point shows strange behaviour, needs to investigate.
- ◇ Question on difference between behaviour at 14 MeV and at 48 MeV.

4 AOB

- ◇ CB working on the analysis of H- stripping efficiency experiment.
- ◇ Next meeting 5th March 2020.