

Nuclear Lunch Questions for September 7th Discussion

- 1.) How does the system take in the SR and use that as feedback to redirect the beam?
(**Alexandra**)
- 2.) How does an undulator work? (**Prasanna**)
- 3.) What is a chicane dipole moment? Is this different from any other type of dipole magnet?
If so, how? (**Brad**)
- 4.) What is meant by “microwave regime” and “bandwidths up to 10 GHz” in the context of
this paper? (**Justin B.**)
- 5.) Does this technology have any applications outside of particle physics? For example,
proton therapy for cancer? (**Chirag**)
- 6.) Why/ how was the optical range chosen? Can this be applied in other bands of
wavelength? (**Joseph F.**)
- 7.) What’s the difference between using the stochastic cooling process for a more focused
beam vs quadrupole magnets? (**Yenuel**)
- 8.) Is OSC applicable for high energy physics where $E > 1$ GeV? (**Justin W.**)