

Note by James Jones:

The main points of the report are: that the tolerances on the undulator section are very tight unless there is some form of trajectory correction and tuning. Tuning just within the undulator section relaxes the tolerances greatly, but this needs to be integrated with the rest of the linac.

The major comments:

All relevant graphs need to be in terms of beam sigmas, instead of absolute values.

There were some questions raised about the non-linearities in the derivation of the wakefields, but this is probably ok.

Future work:

The lattice for the undulator section is to be re-sent to the various groups who can then implement it into their linac lattices and use it as part of the general linac tuning algorithms.

The SR emission spectrum for the undulator also needs to be distributed such that energy loss through the undulator can be modelled.