

AWAKE spectrometer meeting - 08/05/2015

Present: Bart (CERN); Lawrence, Matthew (UCL)
Apologies: Stefano

Lawrence

- Currently at IPAC and had interest in AWAKE when presenting poster.
- Had a brief look at difference between number of photons deposited for 5.5 MeV and 1 GeV electrons.
 - 10 events each. Some 5.5 MeV electrons led to many more photons.
 - > Need more events.
 - > Understand physics processes at lower energies.
 - Looks like lower-energy electrons will be a useful test, but needs clarification.
- Sigma lens may have an issue as is automatic focusing.
 - > Check if manual version available.

Bart

- > Has specifications of screen to be used between plasma cell and spectrometer so that Lawrence can put in simulation.
- Looking at equipment for tests; see uploaded images.
- Discussed planning with Marzia.
 - Installation of dipole magnet may be later as originally planned to be well before electron running. We are okay with a later installation.
 - Sent the overall spectrometer plan to Marzia as we discussed in the previous meeting.
- > To start optical line design next week.

Matthew

- Addendum to MoU has been agreed and should be signed soon.

In two weeks, we will have the TB / PEB meetings in CERN so people can meet then (although Matthew will not be able to attend). Arrange next skype meeting for week after.