

Minutes 11th AWAKE Run 2 Meeting, October 31st, 2019

<https://indico.cern.ch/event/858816/>

Present: Edda Gschwendtner, Pablo Israel Morales Guzman, Jan Pucek, Giovanni Zevi Della Porta, Rebecca Ramjiawan, Livio Verra.

Vidyo: Patric Muggli, Konstantin Lotov, Matthew Wing, Josh Moody

Follow up from previous meetings:

Measurements of effects of Rb on OTR diagnostics foils, etc... will take place in CLEAR in ~January 2019. Further details have to be discussed. **Action → Jan, Stefano.**

Livio has prepared the parameters of the electron beam downstream the plasma source.

Action → David to exchange with Livio to clarify the parameters.

Rebecca continues with electron beam line studies, especially on how to best fit transversally in the CNGS target chamber. **Action: → Rebecca** to present latest results in one of the next Run 2 meetings.

Run 2 simulations plan (Pablo):

Pablo showed his simulation program and the questions he wants to address. First results will be shown in one of the next meetings.

Highest importance is given to the second stage of the vapor source with key questions:

- Do microbunches survive?
- How to optimize e- injection? (beam matching, beam loading)

There is one problem with OSIRIS – feeding results of one simulation into another. Pablo already proved that it is possible to reuse the results, but it is still not clear the e- injection position will be possible to adjust. **Action → Pablo:** Contact Jorge?

Konstantin's question on OSIRIS: Can LCODE's output be used as OSIRIS input?

Action → John: Find out whether different SW output can be as input for OSIRIS and understand the amount of work to implement this.

Other points (all):

WDL is coming next week to CERN to discuss glove box, recycling and the schedule for the vapour source design and building.

Action → Jan: Create a presentation for TB including the outcome of the WDL discussion and EHN1 cleaning.

Shadowgraphy: Amrutha Gopal will come to CERN on 19th of November and will be present in the PEB meeting.

Action → Livio: Provide correct values for beam optics to Rebecca.

Next meeting, Thursday, November 7th, 14:00

Agenda so far:

Update on electron parameters (Livio Verra)

Update on stability simulations (John Farmer)

Jan Pucek, Oct 31st, 2019