

Minutes of RESULTS, PITZ Physics Seminar, 24.10.2013

Project: PITZ

Participants: Frank Stephan, Mikhail Krasilnikov, Georgios Kourkafas, Dmitriy Malyutin, Marek Otevre, Grygorii Vashchenko, Matthias Gross, Tino Rublack, Prach Boonpornprasert, James Good, Martin Khojoyan, Roman Martin, Barbara Marchetti, Anne Oppelt, Gaurav Pathak, Lea Wolter (Schuelerpraktikantin).

Agenda:

- 1) Run coordination
- 2) P. Boonpornprasert, "Simulation of Undulator Radiation for PITZ-like THz Sources Project"
- 3) G. Kourkafas, "Comparison between Vcode and ASTRA in the matching section"

Results:

- 1) The results of the Genesis simulations done by Prach have been discussed. There is a relatively good agreement with the expected results.
- 2) A comparison between the tracking of the Twiss parameters in the PITZ matching section has been presented by Georgios. A discussion concerning suggested tries to do in the running period has followed.
- 3) Run coordination: conditioning up to 7.1MW for 15/50\10 RF power duration was (exceptionally) done by Mikhail. After that, 6.4MW at 15/200\10 has been easily reached. Moreover there were no interlocks for the smac night run at 4MW for 15/200\10 RF pulse duration.

Next steps:

What is to be done?	By whom?	Until when?	Done on
Send the results of the Genesis simulations to Mikhail Yurkov	Barbara		
Perform other simulations using shorter e-bunches at the cathode in order to further increase the peak current for an on-crest beam	Prach/ Barbara		
Plot the produced radiation as a function of the slice in the e-bunch	Prach		
Clarify technical solution to allow very low charge tomography measurement	Georgios		
Please include a couple of slides of introduction in the pps talks so that the new comers can follow better the topic of the discussion	everyone		
Never reboot/ turn off vmepitz22 and vmepitz20 without talking with the RF	everyone		

group			

Protocol prepared by Barbara Marchetti

24.10.2013