

## Minutes of RESULTS, PITZ Physics Seminar, 07.04.2016

Project: PITZ

Participants: F. Stephan, C. Saisa-Ard, Q. Zhao, M. Krasilnikov, I. Isaev, H. Huck, M. Gross, O. Lishilin, T. Rublack, Y. Renier, G. Loisch, P. Boonpornprasert, A. Oppelt, G. Asova, Amatuni, Laura Hakobyan, +some student

### Agenda:

- 1) C. Saisa-Ard. "Evaluation of the photocathode laser transverse distribution".
- 2) Gregor Loisch. "ASTRA bunch orientation. Issues on finding head and tail of asymmetrical bunches".
- 3) AOB

### Results:

1. Simulations of the laser profiles are done. Core+Halo models are investigated. Figure of merit was introduced for qualitative evaluation of the laser profile of implemented core+halo models. Non-cylidricity of the 3 laser transverse profile must be taken as a property of quality for the laser description.
2. Sign of Ref\_clock parameter in ASTRA could be misleading (head vs. tail)

What is to be done?	By whom?	Until when?	Done on
Houjum Qian with wife will come on 31 May	Houjum Qian	31 May	
New Save&Restore tool will be presented on PPS when it will be ready	Igor and David	When the tool will be ready	
Register at Betriebsausflug	all	now	
Check the models: especially 2 <sup>nd</sup> and 3 <sup>rd</sup>	Chaipattana	As soon as possible	
Check which monitor type was used in the simulations / check particle distribution directly after photo cathode	Gregor	ASAP	

Protocol prepared by  
I. Isaev, M. Gross 2016.04.07