

Minutes of RESULTS, PITZ Physics Seminar, 2017-09-14

Project: PITZ

Participants: A. Oppelt, M. Gross, I. Isaev, O. Lishilin, F. Stephan, M. Krasilnikov, X. Li, H. Qian

1) Agenda

1. Y. Renier: Emittance optimization and optics matching with 3 laser shapes
2. Y. Renier Dark current measurements at EXFEL/FLASH/PITZ
3. AOB

2) Results:

- Emittance optimized for 1 nC for 3 shapes of the PC laser
- Emittance for CW: 30MV/m 1nC → lower charge?
- ...

What is to be done?	By whom?	Until when?	Done on
Compare simulated e-beam profiles: at EMSY1 vs. PST.Scr2			
Precise and reliable charge measurements for a wide dynamics range at PITZ is required: 1. between gun and booster (also for radiation protection purposes) 2. after the booster (e.g. for the transport through the plasma cell) 3. to measure extremely low charges (~fC)			

Protocol prepared by
M. Krasilnikov