

Minutes of RESULTS, PITZ Physics Seminar and RC, 2017-07-18

Project: PITZ

Participants: M. Krasilnikov, F. Stephan, M. Gross, H. Qian, Q. Zhao, X.Li, P. Boonprasert, J. Good, R. Niemezyk, O. Lishilin, A. Oppelt, G. Loisch.

1) Agenda

1. F. Stephan, AOB – 10'
2. Q. Zhao "RMS emittance minimization with gun quadrupole correctors for PITZ injector (proposal)", '30 / 10'
3. H. Qian PITZ RC 15'

2) Results:

a) F. Stephan AOB:

1. Welcome summer students
2. Dark current measurements have to be comparable with XFEL setup
3. Summer party on 11.09.2017
4. Guest cards to control room for visitors are available

b) Q. Zhao

1. Background and motivation
2. Reference: PSE swissFEL and GSI
3. 4D emittance and how to get 4D emittance: measure the coupling terms
4. Minimization the emittance by coupling correction with gun quads (proposal)
5. Simulation: Qs and Qn effect on the coupling terms
6. Summary and outlook: experimental procedure for optimization

c) H. Qian, PITZ RC:

Programms for week 30

- THZ related measurement
- Emission study
- UED beam tuning
- Thermal emittance vs gradient
- Gun SMAC + cold startup software

What is to be done?	By whom?	Until when?	Done on

Protocol prepared by
Xin Li, 18.07.2017