

Minutes of RESULTS, PITZ Physics Seminar, 2017-08-03

Project: PITZ

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1) Agenda

1. AOB
2. H. Huck: Emittance Study at PITZ
3. I. Isaev: Results of the gun quadrupoles tests at XFEL 18-24.8.2017

2) Results:

- Slit scans produce high radiation, but Quad Scans haven't been successful.
- Slit scans with multi shot integration provide sufficient SNR (currently done manually)
- 2 new Matlab tools provided for analysis of slit scans. Masking sensitive to user input. And requires experience.
- Possible problem with RMS measurement in different analysis chains. EMSY analysis by FASTSCAN significantly different from Holgers analysis.
- LYSO Screen at PST.Scr1 needed for better SNR and thus larger scan range. Discussion if to do in next Shutdown. Collides with other installations work.

- Roundest/Smallest beam at first at second screen at same Gun Quad Settings With value QLN -0.4 and QLS 0.2
- No difference in emittance for most Settings
- XFEL has a remote browser based interface. Careful cyber safety concerns were expressed.

b) RC:

c) AOB:

- Electric Accident at DESY Hamburg. Safety Rules have to be followed.
- Assignments. See Email by C.Stegmann;

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

Protocol prepared by
C. Koschitzki