

Minutes of RESULTS, PITZ Physics Seminar, 10.01.2017

Project: PITZ

Participants: M. Krasilnikov, H. Qian, G. Loisch, J. Good, Y. Chen, X. Li, F. Stephan, H. Huck, M. Groß, P. Boonpornprasert, J. Engel

1) Agenda:

- a. G. Loisch, Updates on HTR measurements
- b. M. Krasilnikov, Solenoid BBA at XFEL and remarks from the XFEL recommissioning
- c. Run coordination

2) Results:

- a. HTR experimental results
 - 1st run with Lithium plasma cell and 2nd run with gas discharge plasma cell
 - 1st run: transform ratios evaluated from the high energy end of the witness bunch; TR observed [high (up to 4), low, and negative values]
 - 1st run: problems with all measurements-> LYSO too small; Focusing of the witness bunch not investigated
 - 2nd run: TR of max. Energy->4; TR of mean Energy->2.8 by taking single witness
 - 2nd run: problem->discharge not stable; witness and driver jittering; witness bunch kicked vertically to be understood
 - In addition, self-modulation measured with gas discharge plasma cell
- b. Solenoid BBA results at XFEL
- c. RF gun coupler kick measurement results
- d. Remarks from the XFEL recommissioning (sequencer, scanner, TV system, Off-axis screens + kickers)
- e. Run coordination

What is to be done?	By whom?	Until when?	Done on
Simulations for HTR experiments	G. Loisch	TBD	TBD
Sign the gift card on this Thursday (12.01)	everyone	12.01	12.01
Discussions on sequencer with control experts			

Protocol prepared by
Y. Chen 10.01.2017