

# Minutes of RESULTS, PITZ Physics Seminar, 27.03.2015

Project: PITZ

Participants: F.Stephan, D.Maiyutin, M.Bakr, M.Gross, M.Krasilnikov, C.Garcia, Y.Reiner, P.Boonpornprasert, G.Vashchenko, G.Zhao

## Agenda:

- 1) AOB, Short RC
- 2) Y.Reiner, "Experimental Focusing of The Beam for Self-Modulation"
- 3) M. Gross, "Tests with the Plasma Dummy Cell"

## Results:

1. List in the below table.
2. The measurement results were presented:
  - beam size at High1.Scr2 with various Q3&Q4 focusing strength
  - Quad scan measurements in x and y axes
  - scattering effect from the foilTo be done: matching with SC code, verify with ASTRA, various cases of experimental matching
3. The test results were presented.

## Next steps:

| What is to be done?   | By whom?             | Until when?  | Done on |
|---|----------------------|--------------|---------|
| Gun and windows solutions for FLASH and Eu-XFEL based on PITZ experience have to be prepared to present to the committee. |                      | End of April |         |
| Interlocks analysis for the whole running period has to be done. Focus on sources of the ILs.                             | Grygorii, Yves, Igor | Mid of April |         |
| Results of dark current measurements, momentum vs field gradient, momentum spectrum.                                      | Marek                | Mid of April |         |
| New power in the gun for phase stability measurements, 5 MW in the gun  |                      |              |         |
| Summary of phase stability measurements   | Mikhail              | Mid of April |         |

Protocol prepared by Prach Boonpornprasert  
27.03.2015