

Minutes of RESULTS, PITZ Physics Seminar, 16.04.2015

Project: PITZ

Participants:

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Agenda:

- 1) Carlos (Emission studies preliminary results)
- 2) Dimetry (Reconstruction of the longitudinal phase space based on OMA Scan)
- 3) M. Krasilnikov (comments on phase stability Measurement results)

Results:

- 1.1. Results at MMMG with different gun power Vertically:
- 1.2. Slope of the curve in the charge VS LT is increasing with decrease the BSA.
- 1.3. Matlab script to recode the VC2 data to be used in ASTRA code
- 1.4. Laser pulse length consideration????
- 1.5. Results at same gradient with different gun power: Horizontally
- 1.6. Prepare a manuscript for a journal paper!!!!!!!!!!
- 2.1 Estimate the bunch length from the OMA scan data.
- 2.2 Modulation is observed in the momentum distr. Tomography input data.
- 2.3 New tool to reconstruct the phase space from the OMA scan
- 3.1 Scripts for phase stability check are work perfectly and the other conditions need to be checked.

Next steps:

| What is to be done ? | By whom ? | Until when? | Done on |
|--|-----------|-------------|---------|
| Linearity of the laser energy should be rechecked | | | |
| Check the 20% cut from the tale ?????? | Frank | | |
| Try to use statisticals for the phase space reco. And averaging the values | | | |
| Huck will take care of the tool after Demitry | | | |
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Protocol prepared by
Mahmoud, 14.04.2015