

Minutes of RESULTS, PITZ Physics Seminar, 28.02.2013

Project: PITZ

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Agenda:

- 1) D.Malyutin: Introduction to long. phase space tomography at PITZ, part II
- 2) D. Kalantaryan: Booster steering tool development
- 3) B. Marchetti: Optimization of longitudinal phase space distribution of a 20pC e-bunch for quasi-single spike operation at European X-FEL
- 4) G. Kourkafas: Improved tomographic reconstruction of measured data

Results:

- 1) D.Malyutin: Introduction to long. phase space tomography at PITZ, part II
- First reconstructed long. ph. sp. presented.
- 2) D. Kalantaryan: Booster steering tool development
- Report on current development status presented, together with demonstrations of some sub-routines' functionalities.
- 3) B. Marchetti: Optimization of longitudinal phase space distribution of a 20pC e-bunch for quasi-single spike operation at European X-FEL
- DPG rehearsal
- 4) G. Kourkafas: Improved tomographic reconstruction of measured data
- Fringe field's and space charge's effects implemented -> better results obtained.
- 5) General announcements:
- DPG rehearsal
- Presentation of PITZ in the Tech. Seminar needed:
- Suggestion: Conditioning + Run of gun 3.1 report
- Volunteers needed for 25.4. ("children day")

Next steps:

What is to be done?	By whom?	Until when?	Done on
Test the reco. procedure with a test phase space (from ASTRA, for both "the real" momentum distributions	D. Malyutin		

(calculated from bunch just after dipole) and for simulated LEDA/HEDA measurements)			
Test algorithm convergence	D. Malyutin		
Try to use the Galina's C++ MENT code	D. Malyutin (with help of BM, GA, GK)		

Protocol prepared by
M. Otevrel, 28.02.2013