

Minutes of RESULTS, PITZ Physics Seminar, 25.06.2015

Project: PITZ

Participants: F. Stephan, G.Vashchenko, C. Hernandez-Garcia, M.Bakr, M. Otevrel, M Krasilnikov, Q. Zhao, M. Gross, P. Boonbonrprasert, H.Huck, A.Oppelt, S. Rimjaem, Gaurafe, Y. Renier

Agenda:

- 1) H. Huck, Run coordination.
- 2) M. Krasilnikov, PITZ Benchmarking-2015
- 3) M. Bakr, Update of Simulation Results

Results:

- 1) – Laser BBO degradation (2 crystals have to be changed during last time)
- 2) – Cathode was changed and small scratches around the cathode nose were observed.
- 3) Three gun trips may be correlated to the spots from the cathode
- 4) Q map from the new cathode
- 5) Emittance increased by 50% after the cathode replaced.
- 6) Double beam structure was observed in HEDA1 and EMSY1.
- 7) # of ILs increased during the last period.
- 8) Next run measurement program.

- 9) 2 Benchmarks for Beam dynamics in PITZ RF gun W/O space charge.

- 10) The simulation results with 4nC bunch charge are presented together with the previous results.

Next steps:

What is to be done ?	By whom ?	Until when?	Done on
Find statistics and analysis for BBO degradation	Frank → Huck		
Excel file for the IL statistics is needed?	Frank → Yeav		

Protocol prepared by
Mahmoud Bakr, 25.06.2015