Minutes of RESULTS, PITZ Physics Seminar, 11.04.2013

Project: PITZ
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Agenda:

1) Current state of some automatic procedures at PITZ, D. Kalantaryan.
2) Chromatic effects in quadrupole scans, G. Asova
3) Run Coordination

Results:

1) A preliminary version of the functions to be used by Matlab for the optimization of the steerers settings is done.
2) The reason of the unsuccessful degaussing at first try during last shift has been understood.
3) A light version of the degaussing magnet GUI has been prepared.
4) The influence of chromaticity for spot size measurements at PITZ for 1nC best emittance working point has been studied (both having the beam on crest in the booster and slightly off). These effects appear to be negligible.
5) ~100 kW is the maximum power reached up to now in gun 4.3. Interlocks: vacuum and spikes in the e-detectors.

Next steps:

What is to be done?	By whom?	Until when?	Done on
Write in the logbook the documentation about the routines to be used for the adjustment of the steerers	D. Kalantaryan		
Increase the time constant in the config file for the degaussing of the magnets of HEDA2	D. Kalantaryan		
A test-measurement of the remnant field after degaussing with the new routine has to be done	D. Malyutin Sakhorn		
The flag related to the status of a magnet (degaussed/not degaussed) has to be shown in the GUI	G. Trowitz B. Schoeneich		
A scan using two quadrupoles with the RF deflector on for slice emittance measurement would need to be simulated	D. Malyutin ?		

Protocol prepared by
Barbara Marchetti, 11.04.2013