

Minutes of RESULTS, PITZ Physics Seminar, 11.12.2014

Project: PITZ

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Agenda:

- 1) M. Pohl "The PITZ Interlock System" (annual teaching)
- 2) H. Huck "X-Band Transverse Deflecting Structures at SLAC" (paper review)
- 3) AOB

Results:

1) M. Pohl: The PITZ Interlock System

- Current state of the interlock system presented
- 24-channel PM, PD, e- interlock distribution device designed
- At least 2-3 days needed to switch the detectors to the new device (probably during summer shutdown). It is possible to prepare cable adapters for the fast signals (16) prior to the shutdown, but not for the slow signals (~30)
- Few PD are installed in 1 m and 2 m distance from the gun. They are just for signal observation during operation, not for the IL
- Some light from the windows, vacuum side was detected during the shutdown (without RF). Possible reason: someone passed by and caused some reflections, bad cabling causes some noise. Such kind of signal was never registered during the operation

2) H. Holger: X-band Transverse deflecting structures at SLAC

- TDS principle presented. For better temporal resolution one needs high V, high RF, low beam energy, small beam size in the screen, but large beam size in the TDS
- TDSes and their achieved parameters at LCLS, FACET, NLCTA, X-band Test Area (NLC, CLIC) presented
- PITZ TDS theoretical resolution is ~ 100 fs (parameters: 1 MV, 3 GHz, 1 mm mrad, 23 MeV/c, 0.3 mm, beta: 4 m)

3) AOB:

- DPG and IPAC submission: final versions of abstracts should be sent to Frank
- Gaurav is ill, so Y. Renier will take the lead on the Christmas party preparation

Next steps:

What is to be done ?	By whom ?	Until when?	Done on
Prepare a plan for the switching to the new IL distribution board	M. Pohl		

Protocol prepared by:
O. Lishilin, 11.12.2014