

# Minutes of RESULTS, PITZ Physics Seminar, 17.12.2013

Project: PITZ

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## Agenda:

- 1) P. Boonparnprasert: “Study of Space Charge Effect in Emittance Measurement by Slit-scan Technique”.
- 2)

## Results:

- 1) For 10 um slit simulations give that measured emittance is lower and for 50 um slit is higher relative to the simulated one.
- 2) Taken into account the space charge forces causes the 1% increase of the emittance for 10 um slit and 4% increase for 50 um slit.

## Next steps:

What is to be done?	By whom?	Until when?	Done on
Include slit thickness into ASTRA simulation			
Perform study with bunch charge of 2 nC, <u>250 pC</u> , 100 pC and 20 pC.			
Simulation of the solenoid scan.			

Protocol prepared by D. Malyutin, 17.12.2013