

## Minutes of RESULTS, PITZ Physics Seminar, 10.10.2013

Project: PITZ

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### Agenda:

- 1) 3D ellipsoid beams for better performance of injector (M. Khojoyan)
- 2) Quadrupole scan in ASTRA (D. Malyutin)
- 3) Run coordination (M. Krasilnikov)
- 4) AOB

### Results:

- 1) Much better performance with ellipsoidal beam when booster is shifted ~40cm upstream
- 2) ASTRA does not model short quadrupoles well, leads to erroneous results of simulated slice emittance, good agreement when using imported measured quadrupole profiles
- 3) Conditioning: 260kW reached in gun

### Next steps:

What is to be done?	By whom?	Until when?	Done on
Check behavior for flat top at 2.7m	M. Khojoyan	End October	
Write PITZ notes about simulations	M. Khojoyan	End October	
Write PITZ notes about quad scan	D. Malyutin	End October	
Deliver Gun 4.3 conditioning report to HH	M. Krasilnikov	18.10.2013	

Protocol prepared by M. Gross, 10.10.2013