

# Minutes of RESULTS, PITZ Physics Seminar, 2017-08-03

Project: PITZ

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## 1) Agenda

1. AOB
2. Y. Chen: update on emission study
3. H. Qian: PITZ RC

## 2) Results:

- First emission study with PHAROS 245 fs, 1 mm and 2 mm BSA, LT scan vs different gun phase; blow out emission with 245 fs Pharos;
- LEDA for PHAROS 245 fs, 20/40 pC, try to estimate upper limit of slice energy spread; weak image analysis problem
- LEDA modulation: seen in MBI, not in ELLA, not in PHAROS with 2-3 pC
- LYOT filter misalignment can create modulation on top of Gaussian pulse (from Ingo)
- LEDA modulation vs BSA, data summary
- First simulation with a modulated Gaussian laser; no space charge, no energy modulation @ MMMG, energy modulation @ MMMG+20 in ASTRA, time modulation is conserved; Space charge on, modulation shows up at MMMG and MMMG+20 degree
- Discussion on how to confirm the laser modulation in time domain
- Discussion on low charge production for 10 ps PHAROS
- Question: bunch length simulation with space charge did not consider the transverse focusing; booster is compression phase in simulations
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b) RC: see the RC slides

c) AOB:

- Conference paper should be sent two weeks before submit deadline for board review; poster print reminder;

What is to be done?	By whom?	Until when?	Done on

Protocol prepared by  
H. Qian