

## Minutes of RESULTS, PITZ Physics Seminar, 23.05.2013

Project: PITZ

Participants. Mikhail Krasilnikov, Grygorii Vashchenko, Barbara Marchetti, Georgios Kourkafas, Marek Otevre, Matthias Gross, Dmitriy Maluyutin, James, Prach Boopornprasert, R. Martin, Sakhorn Rimjaem, Martin Khojoyan, Gaurav Pathak.

### Agenda:

- 1) M. Khojoyan: "Influence of laser beam temporal profile on the electron beam emittance"
- 2) B. Marchetti: "Comparison of the electron bunch quality achievable using a 3d ellipsoidal shaped laser with respect to the flat top one for the nominal working point at the European XFEL facility"
- 3) Run coordination

### Results:

- 1) Run coordination: Shift should capture images of dark current to realize solenoid misalignment + the laser trolley should be mounted next week
- 2) Booster conditioning period should be foreseen as well as general shift organization

### Next steps:

What is to be done?	By whom?	Until when?	Done on
Optimize parameters also for minimum slice emittance except from projected	M. Khojoyan		
Modify the routine for the calculation of the injector setup	B. Marchetti		
Scan solenoid to achieve smaller beta mismatches within the bunch	B. Marchetti		

Protocol prepared by  
G. Kourkafas, 23.05.2013