

# Minutes of RESULTS, PITZ Physics Seminar, 25.10.2012

Project: PITZ

Participants: Mikhail Krasilnikov, Georgios Kourkafas,, Dmitriy Malyutin, Igor Isaev, Marek Otevre, Grigoriy Vashchenko, Martin Khojoyan, Roman Martin, Matthias Gross, Gaurav Pathak, Yevgeniy Ivanisenko, Barbara Marchetti, Davit Kalantaryan

## Agenda:

- 1) M. Krasilnikov: Summary from cathode workshop at Cornell
- 2) M. Krasilnikov: Measurement and modeling of space charge assisted photoemission (Mikhails talk at the workshop)
- 3) M. Otevre: "OMA" business → next version of MAMA
- 4) D. Malyutin: Disp3.D1 resolution limitation
- 5) Y. Ivanisenko: booster dark current
- 6) Announcements

## Results:

- 1) M. Krasilnikov: interesting workshop, slides from workshop are available at the site of the workshop
- 2) M.K., Emission studies: discussion of different emission models
- 3) M. Otevre: code finished and debugged, user manual almost ready, code does not include dipole scan and systematic error treatment, new code can be used all dispersive sections, uses envelope background subtraction mode,
- 4) D. Malyutin: studied resolution limits of streak, TDS and momentum measurement, including camera limitation
- 5) Y. Ivanisenko: measured booster momentum was too high, reason unclear, may be steerer data was not correct, e-pick up at cavity will probably not give good signal

## Next steps:

What is to be done?	By whom?	Until when?	Done on
Study longitudinal beam profile with TDS cavity	All, Dmitry, Mikhail	2013	
Study emission current profile in LEDA, needs corresponding simulations	Mikhail	Q1/2013	
Include fit procedure for scan	Marek	Q4/2012	
Statistics (sign/backg) for scan and grap	Marek	Q4/2012	
Add error bars in scan	Marek	Q4/2012	
The optical readout of the camera should be improved so that 1 keV/c can be safely resolved	Dmitry, Yevgeniy	Q1/2013	
Colloquium part 2	ALL	Next PPS	


Protocol prepared by F. Stephan, 25.10.2012