

# Minutes of RESULTS, PITZ Physics Seminar, 09.03.2017

Project: PITZ

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## Agenda:

- 1) general topics
- 2) F.Lemery "Balistic Bunching at PITZ"
- 3) H. Qian "Highlights report, Workshop des Forums Beschleunigerphysik: Perspectives for Accelerator Physics and Technology"

## Results:

- 1) Topic 1
  - we need success with ELLA!
- 2) Topic 2
  - DLW is a kind replacement of a chicane. It is needed to produce short bunches.
  - Beam to tube alignment is important. Any misalignment makes instabilities of wake-fields. But one should avoid all dipole modes bcoz in can stop the beam.
  - Beam current is important. Higher the current the higher wake-field amplitude.
  - Our 2ps rise time produces 250GHz which is ok for the structures (300GHz for coated tube and 200GHz for uncoated tube)
  - One of the experiment tasks is to produce as high as possible peak current.
  - The experiment with long Gaussian will not work at all (according to simulations)
  - Some modulations with coated 0.9mm DLW is produced but can be improved.
  - Semi staircase is produced.
- 3) Topic 3
  - KfB: there should be good connection between laboratories and universities
  - KfB: SC cavities must be further developed
  - KfB: further development of new technologies

## Next steps:

What is to be done ?	By whom ?	Until when?	Done on
Topic 1. James must work to get ELLA running!	James	24/7	
Topic 2. Continue DLW experiment	PITZ team		
Topic 2. Do additional DLW simulations	F.Lemery		
Topic 1. Distribute accelerator music posters	all		
Topic 1. Check conferences deadlines	all		

Topic 1. Discussion about annual appraisal results to be done soon at a PPS			

Protocol prepared by  
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(Name, Date)