

# Minutes of RESULTS, PITZ Physics Seminar, 2018-03-08

Project: PITZ

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## 1) Agenda

1. AOB (announcements, visit at HZB, start of shifts and report on visit at Berkeley/SLAC)
2. Ye Chen: Light absorption and electron-phonon scattering in Cs<sub>2</sub>Te photocathodes

## 2) Results:

1. On AOB subjects:
  - feel invited for the DESY 2030 strategy meeting on 20.3.2018 in Hamburg
  - Raffael and Mikhail would be willing to give a tour on 17.March 2018
  - We will have visit at HZB on 14.3.2018 at 1pm to BerlinPro, HoBiCat, and BESSY beamlines
  - shifts with start with 2 shifts per day for 2 weeks and then 1 shift per day only from Mo-Fri
  - very useful visit at Berkeley and SLAC: Situation for LCLS II HE is very similar to situation at DESY
2. On Ye Chen:
  - laser beam fills large part of Cs<sub>2</sub>Te layer
  - penetrating RF fields may affect relaxation time
  - the request to measure reflectivity at about 277nm and other wavelength: maybe mercury lamp could be an option to do this, precision will be difficult to reach
  - band structure parameters are needed to calculate the scattering effect in Cs<sub>2</sub>Te
  - relaxation time has impact on excitation step

Protocol prepared by  
F. Stephan