Minutes of RESULTS, PITZ Physics Seminar, 2017-12-19

Project: PITZ

Participants:

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1) Agenda

- 1. AOB
- 2. A. Schütze: Bachelor thesis defence rehearsal
- 3. C. Koschitzki: Pulse Shape Preservation in a Nonlinear Conversion Process

2) Results:

- 1. AOB: new, larger displays to be installed in the control room. The DESY evaluation will take place the 5th-9th of Feb. On the 2nd of Feb. The evaluation commission will visit Zeuthen on the 2nd of Feb to Zeuthen. Some rehearsal will take place on the 9,17-18 of Jan. Your help may be required on the 5th-7th of Feb.
- 2. A. Schütze: Entwicklung eines Programms zur Analyse von Gammaspektren zur Verwendung im Strahlenschutz bei DESY
- 3. C. Koschitzki: 3d-shaped laser pulses are beneficial for photoinjectors. The ELLA2 program is presented. That design relies on the volume Bragg gratings (VBGs). A symmetric imaging is proposed using 3 VBGs. The frequency conversion efficiency is discussed for shaped pulses: there is always a tradeoff between the conversion efficiency and the shape preservation. Extensive studies are needed on this topic and opinions from external experts. The discussion has to be intensified.

Protocol prepared by O. Lishilin