**Linear and nonlinear magneto-photonics**

Alexandra Kalashnikova, Nikolay Khokhlov

**Grades policy**

The final grade X consists of points for tasks solving (*Xt*), points for the practical (*Xp*), points for delivering a talk at the seminar (*Xs*), and points for the final exam (*Xe*):

*X = Xe + Xt + Xp +Xs*

where 0 ≤ *Xe* ≤ 50, 0 < *Xt* ≤ 30, 0 ≤ *Xs* ≤ 10, 0 ≤ *Xp* ≤ 10.

• **Tasks**. There will be 10 problems given to solve as a homework. Each problem has a different value of points (from 2 to 4 pts). In order to pass the course, the final grade *Xt* should be *Xt* > 15.

* **Practical.** There will be 1 practical which includes experimental work on observation of magnetic domains using linear magneto-optical effects, and the theoretical task to describe the magneto-optical effects allowing observing the domains. For the experimental work one can score 3 points, for the theoretical task - upto 7 points. In order to pass the course, the final grade *Xp* should be *Xp* > 5.
* **Seminar.** There will be one seminar at which the student teams consisting of 3 people should deliver a 15 minutes talk each on the subject on picosecond magneto-acoustics. The talk is based on one or two recent papers on the subject. The scope is comprised of a quality of oral presentation (2 points), quality of graphic material (2 points), understanding of physic and ability to answer questions (6 points). In order to pass the course, the final grade *Xs* should be *Xs* > 5.
* **Final exam.** The final exam will be in the oral form, consisting of three questions and the additional discussion with the lecturer about all topics covered in the course. The list of question will appear in the mid December.

• Mid-term: the mid-term grading is scheduled during a week in the middle of the semester.

$max(X)=100$ points.

To get mark “**3**” minimum **40** points should be attained.

To get mark “**4**” minimum **70** points should be attained.

To get mark “**5**” minimum **85** points should be attained.

**Less** than 40 points attained means no attestation for the course.