

Final competences

- 1 Understanding of the most important phenomena in non-linear optics.
- 2 Knowledge of the most important non-linear materials and understanding of the order of magnitude of typical non-linear effects.
- 3 Skills in the mathematical treatment of non-linear optics.

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Lecture, Self-reliant study activities, Seminar: coached exercises

Learning materials and price

Non-linear optics: syllabus (in English).

References

- R.W.Boyd, Non-linear optics, 2nd edition, Elsevier 2003.
- Optical waves in Crystals , Propagation and control of laser radiation door Amnon Yariv en Pochi Yeh

Course content-related study coaching**Assessment moments**

end-of-term and continuous assessment

Examination methods in case of periodic assessment during the first examination period

Oral examination, Open book examination

Examination methods in case of periodic assessment during the second examination period

Oral examination, Open book examination

Examination methods in case of permanent assessment

Skills test

Possibilities of retake in case of permanent assessment

examination during the second examination period is possible in modified form

Extra information on the examination methods

During examination period: oral open-book exam, written preparation. During semester: homework assignments.

Calculation of the examination mark