

PHYS 206

Statistical Physics and Thermodynamics Statistisk fysikk og termodynamikk

Studiepoeng/ECTS Credit point: 10

Undervisningsspråk/Language: Engelsk/English

Emneansvarlig/hovedforeleser/prime lecturer: Laszlo P. Csernai (C)

kollokvier/Exercises: Agnes Nyiri (N), secondary lecturer: Joakim Hove (H)

• Forelesninger/Lectures:

onsdag/Wednesday 13:15-15:00 rom 546

tirsdag/Tuesday 09:15-10:00 rom 546

• Kollokvium: torsdag/Thursday 10:15-12:00 rom 546

Første forelesning/orienteringsmøte:

onsdag/Wednesday 20.08 kl. 1315-15 i rom 546.

Text by F. Reif: Fundamentals of statistical and thermal physics, (Mc. Graw-Hill, 1965). (Exercises also from W. Greiner et al.: Thermodynamics and statistical mechanics, (Springer, 1995))

Course Plan:

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|-------------------|--------------|-----------------|
| Aug. 20-21 | Ch. 2 | 4+0 C |
| Aug. 26-28 | Ch. 3 | 5+0 C |
| Sep. 2-4 | Ch. 4-5. | 3+2 CN |
| Sep. 9-11 | Ch. 5 | 4+1 HN |
| Sep. 16-18 | Ch. 6 | 5+0 C |
| Sep. 23-25 | Ch. 7 | 5+0 H |
| Sep. 30, Oct. 1-2 | Exercises | 0+5 N |
| Oct. 7-9 | Ch. 8 | 3+2 CN |
| Oct. 14-16 | Ch. 9 | 5+0 C |
| Oct. 21-23 | Exe. + H.W. | 0+5 N |
| Oct. 28-30 | Ch. 12 | 3+2 CN |
| Nov. 4-6 | Ch. 14 | 3+2 CN |
| Nov. 11-13 | Consultation | x HN/in:HiB,437 |
| Nov. 18-20 | Consultation | x CN/in:516,437 |
| Nov. 25-27 | Exam | ensor dependent |

Exam pensum: Chs. 5-9 + H.W. or Exc.

H.W.: 10 day recommended Homework project, deadline Oct. 23. If not submitted -: 2-3 additional exercise problems at the oral exam.