

## PHY1351 Statistical and thermodynamic physics 2

[30h+22.5h exercises] 4 credits

This course is taught in the 2nd semester

Teacher(s):	Jean Bricmont
Language:	French
Level:	First cycle

### Aims

General principles of thermodynamics and of equilibrium statistical mechanics. Applications to various examples.

### Main themes

- 1. General principals of classical thermodynamics
- 2. Statistical mechanics in equilibrium
- 3. Kinetic theory

# Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

Prerequisites: General physics II, 3d statistical part

Support: reference books: H.B. Callen, Thermodynamics and an introduction to thermostatistics, 2d edition, Wiley, N.Y. 1987. Chap. 1-8, 12, 15-18; Colin J. Thomson, Mathematical Statistical Mechanics, Princeton University Press, 1979, Chap. 1; Kerson Huang, Statistical Mechanics, 2d edition, Wiley, N.Y. 1987.

### Other credits in programs

PHYS13BA Troisième année de bachelier en sciences physiques (4 credits) Mandatory