Departement Physik, Universität Basel
Prof. C. Bruder (Zimmer 4.2, Tel.: 207 36 92, Christoph.Bruder@unibas.ch)

Theory of superconductivity, Frühjahrsemester 2026

Course organization

Lecture: Tuesday, 8:15 - 10:00 Uhr, Seminarraum 4.1
Begin: February 17

Exercise class: Friday 13:15 - 15:00 Uhr, Seminarraum 4.1
Begin: February 20

ECTS credits and grade:
To receive the **4 ECTS credits**, you will have to participate in (and pass) an oral exam in the first week of June. The exam will consist of a 10-min presentation (chosen from a list of topics that will be provided soon) and you will be asked questions about the presentation and about other topics covered in the course.

Tutors:
Bethany Davies, office 4.10
Tobias Nadolny, office 4.48

The exercise sheets are available in the lecture and on the webpage
link to course page.

Literature:

M. Tinkham, *Introduction to Superconductivity (2nd edition)*,
Dover Publications. **PHY NA 147**

P.G. de Gennes, *Superconductivity of Metals and Alloys*, Westview Press. **PHY NA 128**

A.J. Leggett, *Quantum Liquids: Bose Condensation and Cooper Pairing in Condensed-Matter Systems*, Oxford University Press. **PHY NA 171**