

# Literaturauswahl

## Einführungen:

- W. Nolting: *Grundkurs Theoretische Physik, Band 7* (Vieweg)
- E.K.U. Gross, E. Runge: *Veilteilchentheorie* (Teubner)
- A. L. Fetter, J. D. Walecka: *Quantum Theory of Many-Particle Systems* (McGraw-Hill)
- G. D. Mahan: *Many-Particle Physics* (Plenum)
- M. Potthoff: *Quantenmechanik III - Vielteilchenphysik*  
(Skript, <http://theorie.physik.uni-wuerzburg.de/~potthoff/>)

## Funktionalintegrale, Diagrammtechnik, DMFT:

- J. W. Negele, H. Orland: *Quantum Many-Particle Systems* (Addison-Wesley)
- A. A. Abrikosow and L. P. Gorkov and I. E. Dzyaloshinski:  
*Methods of Quantum Field Theory in Statistical Physics* (Prentice-Hall)
- A. Georges, G. Kotliar, W. Krauth, and M. J. Rozenberg:  
*Dynamical mean-field theory of strongly correlated fermion systems and the limit of infinite dimensions*, Rev. Mod. Phys. 68, 13-125 (1996)

## weitere Themen:

- P. Nozières, D. Pines: *The Theory of Quantum Liquids* (Addison-Wesley)
- E. H. Lieb, D. C. Mattis: *Mathematical Physics in One Dimension* (Academic)
- F. Gebhard: *The Mott Metal-Insulator Transition* (Springer)
- A. C. Hewson: *The Kondo Problem to Heavy Fermions* (Cambridge University Press)
- H. E. Stanley: *Phase Transitions and Critical Phenomena* (Academic)
- S. Sachdev: *Quantum Phase Transitions* (Cambridge)

- W. Nolting: *Quantentheorie des Magnetismus I, II* (Teubner)
- G. Czycholl: *Theoretische Festkörperphysik* (Vieweg)
- R. M. Dreizler and E. K. U. Gross: *Density Functional Theory* (Springer)
- H. Eschrig: *The Fundamentals of Density Functional Theory* (Teubner)