

Bibliographie : Théorie quantique des champs approfondie

Livres généraux

- A. M. Polyakov, *Gauge fields and strings*, Harwood (1987).
- S. Weinberg, *The quantum theory of fields*, Volume I,II, Cambridge University Press (1995).
- S. Coleman, *Aspects of symmetry*, Cambridge University Press (1985).
- M. E. Peskin et D. V. Schroeder, *An introduction to quantum field theory*, Addison-Wesley (1995).
- C. Itzykson et J. B. Zuber, *Quantum field theory*, McGraw-Hill (1985).
- L. S. Brown, *Quantum field theory*, Cambridge University Press (1992).
- A. Zee, *Quantum field theory in a nutshell*, Princeton University Press (2003).
- K. Huang, *Quantum field theory from operators to path integrals*, Wiley (1998).
- L. H. Ryder, *Quantum field theory*, Cambridge University Press (1996).
- M. Maggiore, *A modern introduction to quantum field theory*, Oxford University Press (2005).
- M. Stone, *The physics of quantum fields*, Springer Verlag (1999).

Théorie des champs et matière condensée

- A. Atland et B. Simons, *Condensed matter field theory*, Cambridge University Press (2006).
- X.-G. Wen, *Quantum field theory of many body systems*, Cambridge University Press (2004).
- A. M. Tsvelik, *Quantum field theory in condensed matter physics*, Cambridge University Press (2003).
- J. W. Negele et H. Orland, *Quantum many-particle systems*, Addison-Wesley (1988).
- S. Sachdev, *Quantum phase transitions*, Cambridge University Press (1999).
- I. Herbut, *A modern approach to critical phenomena*, Cambridge University Press (2007).
- H. C. Stoff, *Ultracold quantum fields*, Springer Verlag (2008).
- N. Nagaosa, *Quantum field theory in condensed matter physics*, Springer Verlag (1999).
- N. Nagaosa, *Quantum field theory in strongly correlated electronic systems*, Springer Verlag (1999).
- E. Fradkin, *Field theories of condensed matter physics*, Addison-Wesley (1991).

Théorie statistique des champs

- J. Cardy, *Scaling and renormalization in statistical physics*, Cambridge University Press (1996).
- C. Itzykson et J. M. Drouffe, *Statistical field theory*, Cambridge University Press (1989).
- J. Zinn-Justin, *Quantum field theory and critical phenomena*, Oxford University Press (1993).

- G. Parisi, *Statistical field theory*, Addison-Wesley (1988).
- S. K. Ma, *Modern theory of critical phenomena*, Benjamin (1976).
- M. Le Bellac, *Quantum and statistical field theory*, Oxford University Press (1992).
- M. Kardar, *Statistical physics of fields*, Cambridge University Press (2007).
- P. Chaikin et T. Lubensky, *Principles of condensed matter physics*, Cambridge University Press (2000).
- N. Goldenfeld, *Lectures on phase transitions and the renormalization group*, Addison-Wesley (1992).
- G. Mussardo, *Statistical field theory: an introduction to exactly solved models in statistical physics*, Oxford University Press (2009).

Intégrale de chemin

- R. P. Feynman et A. R. Hibbs, *Quantum mechanics and Path integrals*, Mc Graw-Hill (1965).
- J. Zinn-Justin, *Intégrale de chemin en mécanique quantique : une introduction*, EDP sciences (2003).
- H. Kleinert, *Path integrals in quantum mechanics, statistics, polymer physics, and financial markets*, World scientific (1996).