Bibliography

Literature

S. Arroyo Camejo *Skurrile Quantenwelt* · Springer · 2006

J.-L. Basdevant *Lectures on Quantum Mechanics* · Springer · 2007

J.-L. Basdevant & J. Dalibard *Quantum Mechanics* · Springer · 2002

R.P. Feynman *The Feynman lectures on physics, Vol.3* · Addison-Wesley · 1971

D.J. Griffiths *Introduction to Quantum Mechanics* · Prentice Hall · 1995

K.C. Hannabuss *An Introduction to Quantum Theory* · Clarendon Press · 1997

M. Le Bellac *Quantum Physics* · Camebridge University Press · 2006

A. Peres *Quantum Theory - Concepts and Methods* · Kluwer Academic · 2002

H. Pietschmann *Quantenmechanik verstehen* · Springer · 2003

J.J. Sakurai *Modern Quantum Mechanics* · Addison-Wesley · 1994

F. Schwabl *Quantenmechanik* · Springer · 1998

A. Zeilinger *Einsteins Spuk* · Goldmann · 2007

Articles and additional literature

[1] **M. Brandl** *Project Physnet - m219 - The Compton Effect*· 12.03.08
Michigan State Universtiy · http://www.physnet.org/modules/pdfmodules/m219.pdf

[2] **E. Hecht** *Optics*· Addison-Wesley · 1974

[3] **R.P. Feynman** *Lectures on Physics*· Vol.III Addison-Wesley · 1965

[4] **G. Möllenstedt & C. Jönsson** *Elektronen-Mehrfachinterferenzen an regelmäßig hergestellten Feinspalten* · Zeitschrift für Physik A, Vol. 155, Nr. 4, Pages 472-474 · 1959

[5] **H. Rauch & H. Kurz** *Beugung thermischer Neutronen an einem Strichgitter* · Zeitschrift für Physik A, Vol. 220, Nr. 5, Pages 419-426 · 1969

[6] **C. G. Shull** *Single-Slit Diffraction of Neutrons* · Phys. Rev., Vol. 179, Nr. 3, Pages 752-754 · 1969

[7] **A. Zeilinger et al.** *Single- and double-slit diffraction of neutrons* · Rev. Mod. Phys. 60, 1067-1073 · 1988

[8] **M. Arndt et al.** *Wave-particle duality of C60 molecules* · Nature 401, 680-682 · 1999

[9] **P. Holland** *Quantum Theory of Motion* · Camebridge University Press · 1993

[10] **O. Passon** *What you always wanted to know about Bohmian mechanics but were afraid to ask* · arXiv:quant-ph/0611032v1 · 2006

[11] **B. D'Espagnat** *Conceptual Foundations of Quantum Mechanics* · Perseus · 1999

[12] **O. Nairz, M. Arndt & A. Zeilinger** *Quantum Interference Experiments with Large Molecules* · Am. J. Phys. 71, 319 & 1084 · 2003

[13] **M. Abramowitz & I. Stegun** *Handbook of Mathematical Functions* · Dover Publications · 1972

[14] **H. Hüffel** *Theoretische Methoden der Physik 2* · script to the lecture · 20.5.08 University of Vienna · http://homepage.univie.ac.at/helmuth.hueffel/SS08/M2.pdf

[15] **P. Thun-Hohenstein** *Quantum Phase and Uncertainty* · Diploma Thesis · 2010 · University of Vienna

[16] **H. Rauch, A. Zeilinger, G. Badurek, A. Wilfing, W. Bauspiess & U. Bonse**
Verification of coherent spinor rotation of fermions
Physics Letters 54A, 425-427 · 1975

[17] **Tanja Traxler**
Decoherence and the Physics of Open Quantum Systems
script to the lecture of R. A. Bertlmann · 13.10.08 · University of Vienna
https://elearning.mat.univie.ac.at/physikwiki/images/9/9b/Decoscript.pdf

[18] **A. Einstein, B. Podolsky & N. Rosen**
Can quantum-mechanical description of physical reality be considered complete?
Physical Review 47, 777-780 · 1935

[19] **D. Bohm**
Discussion of experimental proof for the paradox of Einstein, Rosen and Podolsky
Physical Review 108, 1070-1076 · 1957

[20] **R. A. Bertlmann**
Bell's theorem and the nature of reality
Foundation of Physics 20, 1191-1212 · 1990

[21] **N. Bohr**
Can quantum-mechanical description of physical reality be considered complete?
Physical Review 48, 696-702 · 1935

[22] **J. S. Bell**
On the Einstein Podolsky Rosen paradox
Physics 1, 195-200 · 1964

[23] **J. S. Freedman & J. F. Clauser**
Experimental test of local hidden-variable theories
Physical Review Letters 28, 938-941 · 1972

[24] **E. S. Fry & R. C. Thompson**
Experimental test of local hidden-variable theories
Physical Review Letters 37, 465-468 · 1976

[25] **A. Aspect, J. Dalibard & G. Roger**
Expereimental test of Bell's inequalities using time-varying analyzers
Physical Review Letters 49, 1804-1807 · 1982

[26] **G. Weihs, T. Jennewein, C. Simon, H. Weinfurter & A. Zeilinger**
Violation of Bell's inequality under strict Einstein Locality Conditions
Physical Review Letters 81, 5039-5043 · 1998

[27] **C. H. Bennett, G. Brassard, C. Crépeau, R. Jozsa, A. Peres & W. K. Wootters**
Teleporting an unknown quantum state via dual classical and Einstein-Podolsky-Rosen channels
Physical Review Letters 70, 1895-1899 · 1993

[28] **D. Bouwmeester, J.-W. Pan, K. Mattle, M. Eibl, H. Weinfurter & A. Zeilinger**
Experimental quantum teleportation
Nature 390, 575-579 · 1997

[29] **R. Ursin, T. Jennewein, M. Aspelmeyer, R. Kaltenbaek, M. Lindenthal, P. Walther & A. Zeilinger** *Quantum teleportation link across the Danube* · Nature 430, 849 · 2004