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Compendium of Quantum Physics

Compendium of Quantum Physics Concepts, Experiments, History and Philosophy 123 Editors Daniel Greenberger Department of Physics The City College of New York historical documents on quantum physics, the theory of which was developed side-by-side in these three cultures and languages

Compendium of Quantum Physics - Springer

Compendium of Quantum Physics Concepts, Experiments, History and Philosophy Written by leading quantum physicists, philosophers and historians, including three Nobel laureates, making it a definitive modern reference in the field Comprehensive and yet concise Ideal quick reference for students of physics and history/philosophy of science

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Institute for Theoretical Physics arXiv:0710.1516v2 [quant ...

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Compendium Quantum Mechanics FYSN17/FMFN01

Compendium Quantum Mechanics FYSN17/FMFN01 containing material by Mathematical Physics Last revision by Andreas Wacker February 13, 2013 ii Contents 1 Formulation of Quantum Mechanics 1 11 The ket space and the state of a quantum system 2 following 30 years the concepts of quantum mechanics were developed, as we

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On quantum theory - European Physical Journal

On quantum theory Berthold-Georg Englert Centre for Quantum Technologies and Department of Physics, National University of Singapore, Singapore Received 9 August 2013 / Received in final form 24 August 2013 Published online (Inserted Later) – c EDP Sciences, Societ`a Italiana di Fisica, Springer-Verlag 2013 Abstract

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Quantum Theory Needs No ‘Interpretation’ - Physics Today

focuses on quantum information theory and quantum computation ASHER PERES is the Gerard Swope Distinguished Professor of Physics at Technion—Israel Institute of Tech-nology, in Haifa, Israel He is the author of Quantum Theory: Concepts and Methods (Kluwer, Dordrecht, 1995)

The Principles of Quantum Mechanics - People

minated a curriculum that aligned physics concepts with mathematical foundations and methods This enabled me to see the beauty, elegance, and coherence of classical physics When I was introduced to quantum mechanics, I was disappointed by the way quan-tum concepts such as the probability rule, the complementarity principle, particle-wave

Course Objectives Physics 10: Concepts in Physics

3 Understand basic laws of physics - Newton's laws of motion, gravitation (even relativity) - Concepts of mass, force, acceleration, energy, momentum, power, etc - Electromagnetism - Quantum Mechanics - Light and optics Spring 2008 4 UCSD Physics 10 Course Objectives, continued 4 Map out the hierarchy of the Universe - The cosmos

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Experimental observation of decoherence

Experimental observation of decoherence * To appear in Compendium of Quantum Physics: Concepts, Experiments, History and Philosophy, edited by D Greenberger, K Hentschel, and F Weinert (Springer, Berlin/Heidelberg 2009)

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268 GRW Theory (Ghirardi, Rimini, Weber Model of Quantum Mechanics) $L_{k,c}$, the localisation operator, that has the shape of a Gaussian (a bell-shaped curve) centred around c , which is chosen at random according to the distribution $p_k(c) = \frac{1}{\sqrt{2\pi}} \frac{1}{L} e^{-\frac{1}{2} \left(\frac{c-k}{L}\right)^2}$; the width of the Gaussian is also a new constant of nature, and it is of the magnitude 10^{-7} m The choice of this distribution assures

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