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Quantum Physics of Atoms and Materials 301 An electron is an even tinier object having negative (-) charge and mass about  $1/2000$  that of a proton or neutron A nucleus is made of protons and neutrons bound tightly together by so-called nuclear forces, which we will not discuss in this text An atom consists of a nucleus and one or more electrons moving around it

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51 Quantum confinement 511 Reminder of the basics of quantum physics [Any introductory structure of matter book, eg Eisberg-Resnick] In quantum physics particles are not considered point-like, but instead have wave-like properties

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Modern Physics Spring 2013 Quantum Physics of Atoms, Molecules, Solids, Nuclei, and Particles, Robert Eisberg and Robert Experimental evidence of microscopic properties of matter and wave-particle duality, and introduction to quantum mechanics Other topics will

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Modern Physics by Paul A Tipler and Ralph A Llewellyn (6th edition) ISBN 978-1-4292-5078-8 (W H Freeman & Company, 2012), This book is currently out of print Chapters 1 to 7 will be available in the U of Mb bookstore soon Other Books: Quantum Physics of Atoms, Molecules, Solids, Nuclei and Particles (2nd edition) by Robert Eisberg and

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Quantum Physics Of Atoms, Molecules, Solids, Nuclei And Particles by Eisberg And R Resnick1 Created by Byragoni Pranavi BE Electrical Engineering Jawaharlal Nehru Tehnological University Hyderabad College Teacher None Cross-Checked by Bhavani Jalkrish July 31, 2019 1Funded by a grant from the National Mission on Education through ICT,

### **Introduction to Atomic Physics and Quantum Optics**

References The course materials will be taken from original physics papers and the following texts: Laser Cooling and Trapping, Metcalf and van der Straten Quantum Theory of Light, Loudon Cold Atoms and Molecules, Weidemüller and Zimmermann Introduction to Quantum Optics, Grynberg, Aspect, and Fabre Optical Coherence and Quantum Optics, Mandel and Wolf

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