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In quantum mechanics the revolution has been both profound—requiring a dramatic revision in the structure of the laws of mechanics that govern the behavior of all particles, be they electrons or photons—and far-reaching in its impact—determining the stability of matter itself, shaping the interactions of particles on the atomic, nuclear, and particle physics level, and leading to macroscopic quantum effects ranging from lasers and superconductivity to neutron stars and radiation from black ...

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Quantum Mechanics: A Paradigms Approach (1st ed.). Pearson Addison-Wesley. ISBN 978-0-321-76579-6. Townsend, John (2012). A Modern Approach to Quantum Mechanics (2nd ed.). University Science Books. ISBN 978-1-891389-78-8. Zettili, Nouredine (2009). Quantum Mechanics: Concepts and Applications. Chichester, UK: Wiley. ISBN 978-0470026793.

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Quantum mechanics-based model Hamiltonian and computational approaches will be used to understand novel physics in nanomaterials, e.g. electronic, optical and magnetic properties. Some specific projects are:

- Discovery of new 2D materials with unique electronic properties.
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