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Alexander Komech The main goal of these lectures -- introduction to Quantum Mechanics for mathematically-minded readers. The second goal is to discuss the mathematical interpretation of the main quantum postulates: transitions between quantum stationary orbits, wave-particle duality and probabilistic interpretation.

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arXiv:1907.05786v2 [math-ph] 15 Jul 2019 Lectures on Quantum Mechanics for mathematicians A.I.Komech1 Faculty of Mathematics of Vienna University Institute for Information Transmission Problems of RAS, Moscow Department Mechanics and Mathematics of Moscow State University (Lomonosov) alexander.komech@univie.ac.at Abstract

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Abstract: The goal of these lectures is to introduce readers with a basic knowledge of undergraduate physics (specifically non-relativistic quantum mechanics, special relativity, and electromagnetism) to the `current theory of everything': the Standard Model of particle of physics. By the end of the course, readers should be able to make predictions for simple processes at the Large Hadron Collider, such as decay rates of the Higgs boson.

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