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Quantization of the Kepler problem

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Abstract. The classical Kepler problem consists of determining the trajectories of two particles interacting by a potential given by Newton's law as described by Newton's equations of motion. The quantum Kepler problem consists of determining the wave functions of two particles interacting by it as described by Schrödinger's equations. The former gives insight into the motion of celestial bodies and the latter gives insight into the properties of atoms.