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"Quantum mechanics and cosmology"

The following problems are considered:

1. Connection between the classical and quantum theories.
2. A classical dynamical system in a thermal bath.
3. Harmonic oscillator in a thermal bath. The Planck constant.
4. Physics on the Planck scales. A chain of oscillators in a thermal bath.
5. Hamiltonian mechanics and the time arrow.
6. The lifetime of the quantum Universe and the cosmic dust.