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## **Anomalous Heisenberg equation and related issues**

*mercoledì 27 giugno 2018 09:30 (45 minuti)*

We discuss the Heisenberg equation for operators that do not preserve the boundary conditions for the domain of the Hamiltonian. We show that it acquires an anomalous term that depends only on the boundary values.

We briefly review the theory of selfadjoint extensions of symmetric operators where the above mentioned anomalous term plays the key role.

We show how the previous results affect to other identities in quantum mechanics like Hellmann-Feynman or virial theorems.

We finally study some examples of boundary effects in quantum quenching dynamics.

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