

Quantum Optics, Quantum Nanophysics and Quantum Information Group

Wed, 2016-09-28 12:02 - [pwalthner](#) [1] **Website:**
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The group "Quantum Optics, Quantum Nanophysics and Quantum Information" is internationally highly competitive in various quantum research areas covering experimental and theoretical research in foundations of quantum physics, quantum optics, quantum information, strongly correlated quantum systems as well as molecular quantum nanophysics.

The experimental groups (Markus Arndt, Markus Aspelmeyer, Philip Walther, Anton Zeilinger) run more than a dozen state-of-the-art laboratories on topics related to the foundations of quantum physics, quantum physics with photons, molecules, clusters, nanoparticles and nano-mechanical systems, as well as quantum information processing in computation, simulation, and communication, and optical precision measurements.

The theoretical groups (Caslav Brukner, Ivette Fuentes, Beatrix Hiesmayr and Frank Verstraete) focus their research on quantum foundations and quantum information theory, relativistic quantum information and metrology, as well as many-body quantum theory.

Leader: Philip Walther

Location

University of Vienna, Faculty of Physics Boltzmannngasse 5
Vienna 1090 Austria
48° 13' 17.8608" N, 16° 21' 22.6152" E

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- [Quantum Computation](#) [5]

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