

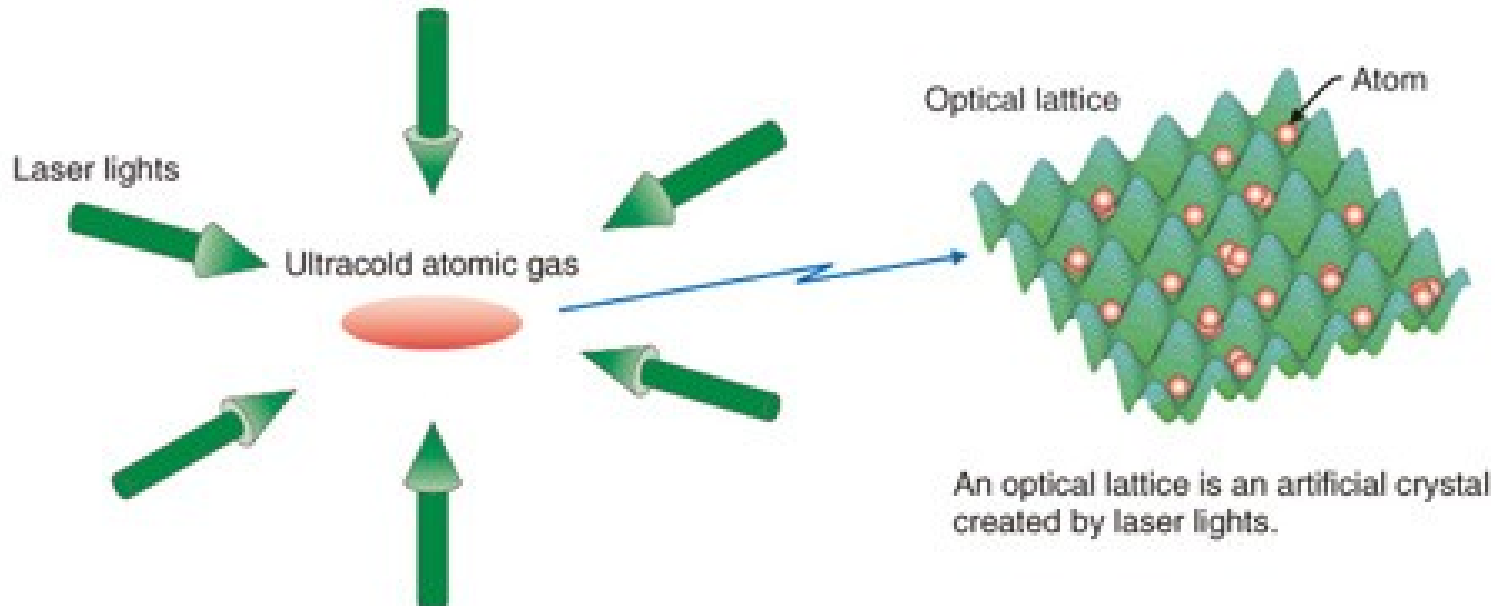


Theoretical Physics of Ultracold Atoms

Speaker: Prof. Luca Salasnich

Quantum Physics of Ultracold Atoms

Bose-Einstein condensation with bosons, BCS-BEC crossover with fermions, strong connection also with several experimental groups



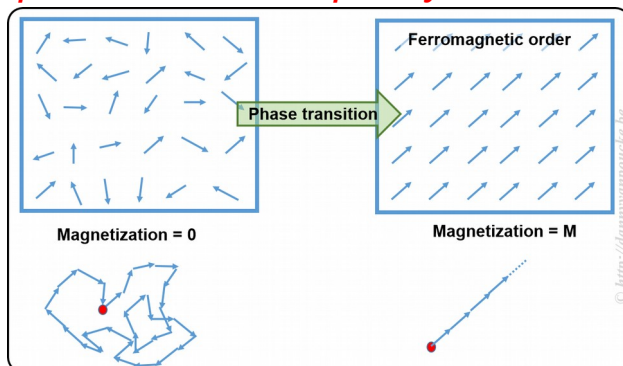
Methods of Theoretical and Mathematical Physics

Nonlinear Schrodinger equation, Feynman path integral, solitons, quantized vortices

$$\langle x_t | e^{-i\hat{H}t/\hbar} | x_0 \rangle =$$

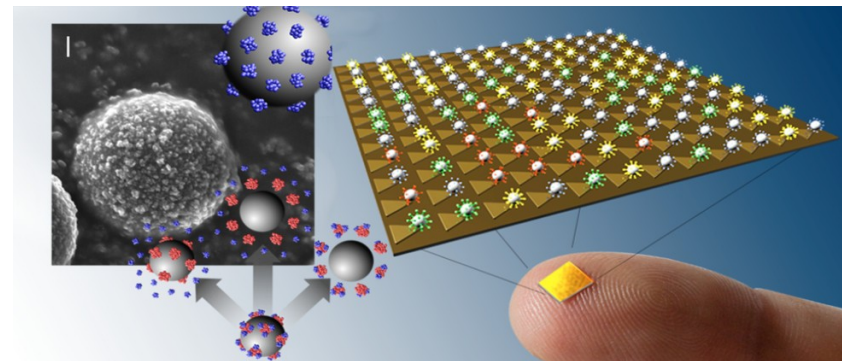
Quantum Statistical Mechanics

Phase transitions with quantum gases, superconductors, spin systems



Low-Dimensional Physics

Quantum mechanics of many-body systems confined in quasi-2D or quasi-1D



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Contatti

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