



Ultracold Gases and Quantum Information: Lecture Notes of the Les Houches Summer School in Singapore: Volume 91, July 2009

*Christian Miniatura, Leong-Chuan Kwek, Martial Ducloy, Benoît Gremaud, Berthold-Georg Englert,
Leticia Cugliandolo, Artur Ekert, Kok Khoo Phua*

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In recent years, there has been much synergy between the exciting areas of quantum information science and ultracold atoms. This volume, as part of the proceedings for the XCI session of Les Houches School of Physics (held for the first time outside Europe in Singapore) brings together experts in both fields. The theme of the school focused on two principal topics: quantum information science and ultracold atomic physics.

The topics range from Bose Einstein

Condensates to Degenerate Fermi Gases to fundamental concepts in Quantum Information Sciences, including some special topics on Quantum Hall Effects, Quantum Phase Transition, Interactions in Quantum Fluids, Disorder and Interference Phenomena, Trapped Ions and Atoms, and Quantum Optical Devices.

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