

CONFERENCIA

Dpto. Física de los Materiales

Quantum Information Theory: visions and perspectives

Impartida por

D. Michael M. Wolf

Profesor del Instituto Niels Bohr, Univ. Copenhagen

Sala Enrique Linés de la Facultad de Ciencias de la UNED

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Abstract: The talk will outline the visions and perspectives of the field of quantum information theory. We will discuss the idea and algorithms behind quantum computing as well as the help of entanglement in communication complexity and cryptography. We will mainly focus on the theoretical concepts and visions and briefly sketch the experimental state-of-the-art. The talk will provide an overview for non-experts. Some basic background in quantum physics and/or computer science will, however, be helpful.

Pº Senda del Rey, 9
28040, MADRID
Tel: 91 398 71 85
fis-mat@ccia.uned.es
<http://www.uned.es/dpto-fisica-materiales>

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