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Physics leader to speak at UCT for non-physics audience

Professor Anton Zeilinger will discuss 'Quantum Games and Quantum Information' at the Vice-Chancellor's Open Lecture, Tuesday, 25 October 2011, 18h00, in Kramer LT1, Middle Campus

Professor Anton Zeilinger of the University of Vienna, Austria, will speak on "Quantum Games and Quantum Information" at the Vice-Chancellor's Open Lecture at the University of Cape Town on Tuesday, 25 October 2011 at 18h00, in Kramer Lecture Theatre 1. The lecture is free of charge and open to the public. Please contact Ms Michelle Moses via email (michelle.moses@uct.ac.za) or telephone 021 650 4870 to ensure seating is available.

Quantum physics provides possibilities to win betting games that are otherwise impossible. These are related to the questions of the nature of reality and information in a quantum context. It is also connected to the landmark public debate on quantum mechanics between famed physicists Niels Bohr and Albert Einstein around 1930. In his lecture, Professor Zeilinger will discuss some basic experiments and their interpretations, as well as the applications of the fundamental concepts in the newly emerging field of quantum information science.

Professor Zeilinger is professor of physics at the University of Vienna, Austria, and the director of the Vienna branch of the Institute for Quantum Optics and Quantum Information at the Austrian Academy of Sciences. He is renowned for his realisation of quantum teleportation – moving a basic unit of quantum information, ie a qubit, from one location to another without the qubit ever being transmitted through the in-between space – with photons. In 2005, he was named by leading British current affairs magazine *New Statesman* as one of the "10 people who could change the world". In 2010 he received the renowned Wolf Prize in Physics. His achievements are succinctly described in his citation for the Isaac Newton Medal of the Institute of Physics (UK): "For his pioneering conceptual and experimental contributions to the foundations of quantum physics, which have become the cornerstone for the rapidly-evolving field of quantum information."

ENDS

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