



General Scientific Meeting 2008 of the Belgian Physical Society
Solvay Colloquium

“Quantum Teleportation and Nonlocality”

Professor Nicolas Gisin

Université de Genève,
Switzerland

Abstract

“Quantum communication is the art of transferring quantum states from one place to another. The most fascinating example is Quantum Teleportation: an object dissolves here and reappears there without ever existing at any intermediate location. In the first half of this presentation we present the experimental challenges that had to be overcome in order to demonstrate teleportation from our lab to a Swisscom center downtown Geneva. In the second half we discuss some conceptual issues of quantum nonlocality. We consider it both from the point of view of the resources required to simulate it and as a resource enabling one to achieve tasks otherwise impossible.”

Wednesday 21 May at 14h00

FORUM A

UNIVERSITE LIBRE DE BRUXELLES
CAMPUS PLAINE
BOULEVARD DU TRIOMPHE – ACCESS 2
1050 BRUSSELS

www.solvayinstitutes.be