

INTERNATIONAL SOLVAY INSTITUTES

Brussels



Vrije Universiteit Brussel

You are cordially invited to attend the seminar entitled

« *FROM MICRO- TO NANOELECTRONICS : A QUANTUM LEAP* »

Professor Klaus von KLITZING

Max-Planck-Institut für Festkörperforschung
Stuttgart - Germany

Abstract

“The scaling laws for the miniaturization of microelectronic devices break down if the wave nature and the discrete charge of electrons dominate the electronic properties. These quantum phenomena do not mark the end in the miniaturization of devices but open the possibility to create new devices with new functions where for example the energy quantization of electrons in confined structures, tunnel phenomena through barriers and single electron charging of small islands play an important role.

The talk gives an overview about the physics, technology and application of semiconductor quantum structures and discusses some recent basic research activities of my group in this field.”

Tuesday May 16, 2006 at 16h00

COFFEE AND TEA WILL BE SERVED AT 15H45 IN FRONT OF THE SOLVAY ROOM

SOLVAY ROOM

UNIVERSITE LIBRE DE BRUXELLES

CAMPUS PLAINE

BOULEVARD DU TRIOMPHE – ACCESS 2

BUILDING NO – 5TH FLOOR

1050 BRUSSELS