

Arnold Sommerfeld Special Lecture Series on:

“Quantum Impurities in and out of Equilibrium”

Room 349, Theresienstr. 37

Prof. Natan Andrei
Rutgers University

*5 lectures,
one per day, from Monday, August 28, to Friday, September 1, 2006,
from 10:00 - 12:00 AM every day.*

*Natan Andrei is **THE** internationally leading expert on Bethe-Ansatz solutions of quantum impurity models. The summer-school style lectures will aim to introduce an audience of non-experts to his recent advances in using a newly developed nonequilibrium Bethe Ansatz to solve nonequilibrium quantum impurity problems.*

Plan of Lectures

1. The Kondo effect - simplest example of a strong correlation effect in a quantum impurity system. Failure of the perturbative approach. Introduction to the Bethe-Ansatz approach.
2. The Bethe Ansatz approach - thermodynamics of the Kondo model
3. The Bethe Ansatz approach - continued. Some ideas about Nonequilibrium
4. The Bethe Ansatz approach to Quantum Impurities out-of-equilibrium
5. The Bethe Ansatz approach to Quantum Impurities out-of-equilibrium (continued)

signed: Jan von Delft