



**INSTITUTUL DE MATEMATICA
« SIMION STOILOW »
AL ACADEMIEI ROMANE**

ANUNTA:

Ciclul de 3 expuneri introductive de Fizica Matematica

sustinite de Prof. Atle Hahn (Universitatea Lisabona)

24 Octombrie: LECTURE 1: The Time Arrow Paradox

Abstract: The laws of Physics are (essentially) invariant under "time reversal". So why can we only "remember" things that happened in the past but not things that will happen in the future?

Note: The lecture is an introduction to Statistical Mechanics.

26 Octombrie: LECTURE 2: Classical Electrodynamics on the fast lane

Abstract: One of the great things about being a Mathematician is that this allows you to get a grasp of Classical Electrodynamics (and some of the basic ideas of Special Relativity) within 60 minutes.

27 Octombrie: LECTURE 3: Knot Theory and Quantum Gravity

This lecture consists of three parts:

The first part is a short introduction to Knot Theory.

The second part is a very short introduction to Classical General Relativity.

The third part is an ultra short introduction to Quantum Gravity.

**Expunerile de 60 de minute vor avea loc incepand cu ora 17:00,
in Amfiteatrul « Miron Nicolescu » al IMAR, Calea Grivitei 21, la parter.**