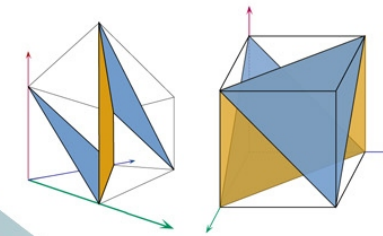
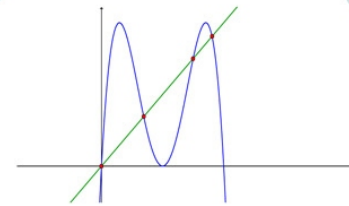
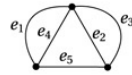
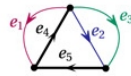
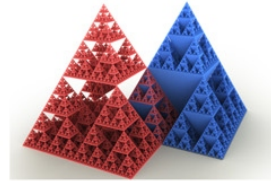
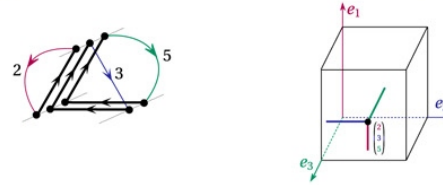


## Abstract:

In this talk we present shortly some direct methods in the calculus of variations. An application to the study of Schrödinger equations is also given.



Babeş-Bolyai University  
Sfântu-Gheorghe  
Bibó István Room  
10 April 2013  
2 p.m.

## Direct methods in the calculus of variations and an application to a Schrödinger equation

Dr. Francesca Faraci  
Universita di Catania  
Catania, Italy

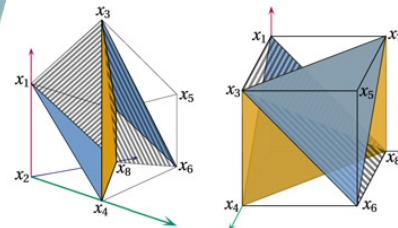
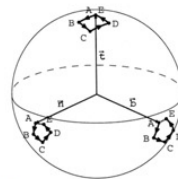
Chair: dr. Alexandru Kristály

Time-Dependent Schrodinger Equation

$$i\hbar \frac{\partial \Psi}{\partial t} = -\frac{\hbar^2}{2m} \frac{\partial^2 \Psi}{\partial x^2} + V(x)\Psi$$

## Kivonat:

Az előadásban röviden ismertetünk néhány direkt módszert a variációszámítás elméletéből. Ezek alkalmazásaként egy Schrödinger típusú egyenletet tárgyalunk.



## Rezumat:

În această prezentare vom parcurge câteva metode directe din calculul variațional. Aceste rezultate vor fi aplicate în rezolvarea unor ecuații de tip Schrödinger.