

INSTITUTUL DE MATEMATICĂ “SIMION STOILOW” AL ACADEMIEI ROMÂNE

**Conferința lunară**

# ***Dispersion property for Schrödinger equations***

**Liviu Ignat**

*(IMAR si FMI)*

Conferința va avea loc Miercuri **11 noiembrie 2015, ora 13**

la sediul IMAR, amfiteatrul “Miron Nicolescu”, parter

**Abstract:** In this talk we present some basic properties of the Schrödinger equation on the whole space. There are properties of gain on integrability/regularity with respect to the initial data: the Strichartz estimates and the so-called local smoothing property, both of them having an important role in solving nonlinear problems. We will focus on the dispersion property of the solutions and we will analyze this property in the context of discrete equations and of the equations on graphs.