INSTITUTUL DE MATEMATICA "SIMION STOILOW" AL ACADEMIEI ROMANE

Conferința lunară

Analysis on non-compact manifolds

Victor Nistor

(Universite de Lorraine - Metz - France)

Conferința va avea loc **Miercuri 5 iulie 2017, ora 12:00**
la sediul **IMAR**, amfiteatrul "Miron Nicolescu", parter

Abstract: I will present some recent results on analysis on non-compact manifolds. We will discuss first the case of manifolds with bounded geometry. Then we will take a quick look at the sub-class of "Lie manifolds", which are manifolds with "nice" ends and bounded geometry determined by a Lie algebra of vector fields. The advantage of a Lie manifold structure (on a manifold with bounded geometry) is that it provides a smaller algebra of differential operators that are easier to handle.