Εβδομαδιαίο Σεμινάριο

The Strong Elliptic-Parabolic Maximum Principle for Vector Valued Maps and Geometric Applications

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Based on works by H. Weinberger, R. Hamilton and L. Evans, we state and prove a strong elliptic maximum principle for smooth sections in vector bundles over Riemannian manifolds. This maximum principle in the most general form, is sharp and generalizes the classical Hopf strong maximum principle for elliptic and parabolic operators of second order. We use this principle to give some applications in Geometric Analysis. In particular, we obtain various rigidity and topological results for higher co-dimension graphs between Riemannian and Kaehlerian manifolds. This is a joint work with K. Smoczyk.

Τετάρτη 7 Νοεμβρίου 2012, 5:30μμ   Αίθουσα 201α Τμήματος Μαθηματικών

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