



ΠΑΝΕΠΙΣΤΗΜΙΟ ΙΩΑΝΝΙΝΩΝ

ΤΜΗΜΑ ΜΑΘΗΜΑΤΙΚΩΝ



Σεμινάριο Erasmus

## HARMONIC MAPS ON COSYMPLECTIC MANIFOLDS

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Combining both local and global aspects and borrowing both from Riemannian geometry and analysis, the theory of harmonic maps between Riemannian manifolds has developed in many diverse branches. In particular, there is now a whole battery of deep and interesting results about harmonic maps to or from complex manifolds and Kähler spaces. Within almost contact geometry, there are several classes of manifolds that can be considered as odd-dimensional analogs of Kähler spaces, the most important ones being Sasakian and cosymplectic spaces. In general the construction of energy minimizing maps is much more difficult than finding harmonic ones. We prove that structure-preserving maps on cosymplectic manifolds minimize the energy of maps.

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Μετά την ομιλία ακολουθεί καφές και συζήτηση στο εντευκτήριο του Τμήματος