



## Minisymposium 11 - Geometrische Analysis

## On weakly harmonic maps from Finsler to Riemannian manifolds

HEIKO VON DER MOSEL (RWTH AACHEN) (JOINT WORK WITH S.WINKLMANN)

We discuss weakly harmonic maps from Finsler manifolds into Riemannian manifolds and prove Hölder estimates for such mappings whose image is contained in a regular ball of the target manifold. These estimates generalize results of Giaquinta, Hildebrandt and Hildebrandt, Jost, Widman for weakly harmonic maps between Riemannian manifolds. As an application of the interior a priori estimates we obtain a Liouville theorem for entire harmonic maps from Finsler manifolds. The global estimates in conncetion with a uniqueness result of Jäger and Kaul lead to an existence theorem for such harmonic maps.