

NEW EQUIVARIANT HARMONIC MAPS BETWEEN COHOMOGENEITY ONE MANIFOLDS

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In my talk I explain how to construct new equivariant harmonic self-maps of cohomogeneity one manifolds. The problem of constructing such harmonic self-maps is reduced to solving non-standard singular boundary value problems for non-linear ordinary differential equations. I present new techniques to find solutions of these boundary value problems and discuss a few interesting examples.