

THE DIRICHLET PROBLEM FOR HARMONIC MAPS INTO CONVEX SUPPORTING BALLS

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ABSTRACT. Harmonic maps are critical points of the Dirichlet energy functional associated to a given manifold valued map. In this talk I will discuss the existence of a solution of the Dirichlet problem for harmonic maps in the assumption that the range of the boundary datum is confined into a ball where the squared distance function from its origin is strictly convex. No curvature restriction on the target is imposed. This is a joint work with Giona Veronelli.