



Characterizations of Model Manifolds by Means of Certain Differential Systems

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Abstract. We prove metric rigidity for complete manifolds supporting solutions of certain second order differential systems, thus extending classical works on a characterization of space-forms. Along the way, we also discover new characterizations of space-forms. We next generalize results concerning metric rigidity via equations involving vector fields.

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Received by the editors September 10, 2009.

Published electronically June 29, 2011.

AMS subject classification: **53C20**.

Keywords: metric rigidity, model manifolds, Obata's type theorems.