Ann. Sc. Norm. Super. Pisa Cl. Sci. (5) Vol. XII (2013), 43-92

Quantitative uniqueness estimates for the shallow shell system and their application to an inverse problem

MICHELE DI CRISTO, CHING-LUNG LIN AND JENN-NAN WANG

Abstract. In this paper we derive some quantitative uniqueness estimates for the shallow shell equations. Our proof relies on appropriate Carleman estimates. For applications, we consider the size estimate inverse problem.

Mathematics Subject Classification (2010): 53J58 (primary); 35R30 (secondary).