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Alfredo Villanueva* (villanuevaa@savannahstate.edu), Savannah State University,
Department of Mathematics, PO BOX 20047, Savannah, GA 31404. *Explicit Solutions of the
Schrodinger Equation on Families of Riemannian Manifolds.*

The study of separation of variables on Riemannian manifolds, is an active research area, and still unsolved in general settings. In this paper, we show explicit solutions for the Schrodinger equation in Darboux type Manifolds. Our approach is the use of separation of variables after a suitable change of variables. We also study the geometry of these manifolds. (Received September 16, 2014)