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Igor Prokhorenkov* (i.prokhorenkov@tcu.edu), Department of Mathematics, TCU Box 298900, Fort Worth, TX 76129, and **Ken Richardson**. *Examples of Witten deformations for Riemannian foliations*.

Witten deformation of a transversal Dirac operator is a useful tool for studying geometry and topology of Riemannian foliations. We will give examples of Witten deformations and describe some results obtained by these techniques. (Received February 04, 2013)