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Mihai Bailesteanu* (bailesteanu@math.rochester.edu), Department of Mathematics, Hylan
801, Rochester, NY 14627. *Spin(7) manifolds*.

We study Spin(7) manifolds, which are 8 dimensional manifolds, that have a cross product on its tangent bundle, which generates a natural 4-form. We discuss some canonical vector fields on these manifolds and some applications. (Received July 10, 2012)