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Fernando Galaz-Garcia* (f.galaz-garcia@uni-muenster.de) and **Martin Kerin**. *Isometric circle actions on simply-connected 4-manifolds with nonnegative curvature.*

The classification of simply-connected 4-manifolds with nonnegative sectional curvature remains an open problem. These manifolds have been classified, however, under the additional assumption of an isometric circle action. In this talk I will discuss the classification of the possible circle actions on these manifolds. (Received February 14, 2011)