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Lee Kennard* (kennard@ou.edu) and **Burkhard Wilking**. *Positive curvature and torus symmetry*.

It is an open problem whether every simply connected, closed manifold admitting non-negative sectional curvature also admits positive sectional curvature. One conjectured obstruction is due to Hopf: In even dimensions, positive sectional curvature implies positive Euler characteristic. I will discuss joint work with Burkhard Wilking on this problem in the presence of torus symmetry. (Received July 10, 2017)