

**Meeting:** 1000, Albuquerque, New Mexico, SS 8A, Special Session on Interactions in Riemannian Geometry

1000-53-186      **Wolfgang Ziller\*** (wziller@math.upenn.edu), **Karsten Grove** and **Burkhard Wilking**.  
*3-Sasakian spaces and positive sectional curvature*. Preliminary report.

There is an infinite sequence of seven dimensional manifolds which occur in two different contexts. On the one hand they carry a 3-Sasakian metric, in fact the first non-toric one in dimension 7. On the other hand they occur as candidates in a classification of cohomogeneity one manifolds with positive sectional curvature. (Received August 24, 2004)