Ann. Sc. Norm. Super. Pisa Cl. Sci. (5) Vol. XIII (2014), 207-224

## A diameter bound for Sasaki manifolds

## YASUFUMI NITTA

**Abstract.** In this paper we shall show that the diameter of a complete Sasaki manifold whose transverse Ricci curvature is bounded from below by a positive constant has a universal upper bound. This gives another proof of the result of Hasegawa and Seino in [9] which asserts that such manifolds are always compact with finite fundamental group.

Mathematics Subject Classification (2010): 53C55 (primary); 53D10 (secondary).