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Santiago R. Simanca* (santiago@math.unm.edu), Department of Mathematics UNM, University of New Mexico, Albuquerque, NM 87131. *Special Reeb vector fields on Sasaki manifolds.*

We describe the energy functional of a Reeb vector field on a Sasaki manifold, and derive its first variation. We exhibit some examples of Reeb fields satisfying this Euler-Lagrange equation. (Received August 20, 2007)