

Title: Second variation formula and the stability of Legendrian minimal submanifolds in Sasakian manifolds

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Abstract: The notion of Hamiltonian minimal Lagrangian submanifolds in Kähler manifolds was first introduced by Y.G. Oh, and his main concern is the stability. An odd-dimensional version of Kähler manifolds would be Sasakian manifolds in the contact geometry. Corresponding to Hamiltonian minimal Lagrangian submanifolds, we introduce the notion of Legendrian minimal Legendrian submanifolds in Sasakian manifolds, and compute the second variation formula to study the stability.