

Ideal Contact Slant Submanifolds in Sasakian Space Forms

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Abstract

I. Mihai [2] has investigated ideal C -totally real submanifolds in Sasakian space forms.

In the present paper, we study contact slant submanifolds in Sasakian space forms. We prove Chen first inequality for such submanifolds. A submanifold satisfying the equality case is minimal. Afterwards we obtain Chen inequalities for contact slant submanifolds in Sasakian space forms. Ideal contact slant submanifolds are minimal.

We mention that a particular case was considered in [3].

References

- [1] B.Y. Chen, *Ideal Lagrangian immersions in complex space forms*, Math. Proc. Cambridge Philos. **128** (2000), 511-533.
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- [3] I. Mihai and V. Ghişoiu, *Minimality of certain contact slant submanifolds in Sasakian space forms*, Int. J. Pure Appl. Math. Sci. **1** (2004), 95-99.

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