

INEQUALITIES ON THE RICCI CURVATURE

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Abstract. We improve Chen-Ricci inequalities for a Lagrangian submanifold M^n of dimension n ($n \geq 2$) in a $2n$ -dimensional complex space form $\tilde{M}^{2n}(4c)$ of constant holomorphic sectional curvature $4c$ with a semi-symmetric metric connection and a Legendrian submanifold M^n in a Sasakian space form $\tilde{M}^{2n+1}(c)$ of constant ϕ -sectional curvature c with a semi-symmetric metric connection, respectively.

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