Chen Invariants and Inequalities. Recent Results

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Abstract

We improve Chen-Ricci inequality for Kaehlerian slant submanifolds in complex space forms and investigate its equality case.

We also consider special contact slant submanifolds of Sasakian space forms and prove Chen inequality involving the scalar curvature and Chen-Ricci inequality.

Finally we define a locally conformal Kaehler Riemannian invariant of Chen type and prove a Chen inequality for this invariant.

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