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RICCI CURVATURE OF LAGRANGIAN SUBMANIFOLDS IN COMPLEX SPACE FORMS

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Abstract. As we showed in [5] and [6], the basic inequalities, involving Riemannian invariants of a Lagrangian submanifold immersed in a complex space form, can be improved using optimization methods. Also in [1] is showed that the improved Chen's inequality from [5] is optimal. In this paper we find another proof for a Chen's inequality, regarding the Ricci curvature [2] and we improve this inequality in the Lagrangian case.

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