

# INEQUALITIES OF OPREA

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We generalize an inequality of Oprea for Lagrangian submanifolds, which improved an inequality of Chen, to curvature-like tensor fields. We show what this implies for centroaffine hypersurfaces and give some additional properties in the case that equality is reached.

Furthermore we look at a second inequality of Oprea relating the Ricci curvature to the mean curvature for Lagrangian submanifolds. We show that only totally geodesic submanifolds can attain equality on an open set of a point.