GENERALIZED WINTGEN INEQUALITY FOR LAGRANGIAN SUBMANIFOLDS IN QUATERNIONIC SPACE FORMS

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Abstract. In this paper, we obtain the generalized Wintgen inequality, also known as the DDVV inequality, in the case of a Lagrangian submanifold in quaternionic space forms. We also give a proof for the DDVV inequality in the case of slant submanifolds of a quaternionic space form.


Keywords and phrases: Wintgen inequality, DDVV conjecture, Lagrangian submanifolds, slant submanifolds, quaternionic space forms.

REFERENCES