

22(5)

## CHARACTERIZATION OF TOTALLY GEODESIC TOTALLY REAL 3-DIMENSIONAL SUBMANIFOLDS IN THE 6-SPHERE

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**摘要** In this paper, we study Lagrangian submanifolds of the nearly Kaehler 6-sphere. We derive a pinching result for the Ricci curvature of such submanifolds thus providing a characterisation of the totally geodesic submanifold. Our pinching result improves a previous result obtained by H. Li.

**关键词** [Ricci curvature](#) [totally real submanifold](#) [nearly Kaehler 6-sphere](#) [totally geodesic submanifold](#)

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**Abstract** In this paper, we study Lagrangian submanifolds of the nearly Kaehler 6-sphere. We derive a pinching result for the Ricci curvature of such submanifolds thus providing a characterisation of the totally geodesic submanifold. Our pinching result improves a previous result obtained by H. Li.

**Key words** [Ricci curvature](#) [totally real submanifold](#) [nearly Kaehler 6-sphere](#) [totally geodesic submanifold](#)

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