

# STUDY ON STRUCTURE JACOBI OPERATOR IN COMPLEX TWO-PLANE GRASSMANNIANS

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ABSTRACT. We study classifying problems of real hypersurfaces in a complex two-plane Grassmannian  $G_2(\mathbb{C}^{m+2})$ . In relation to structure Jacobi operator, we consider some recurrent condition. In this case, we prove a complete classification for a real hypersurface in  $G_2(\mathbb{C}^{m+2})$  satisfying such a condition.

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