

Real Hypersurfaces in Complex Two-Plane
Grassmannians with Reeb Parallel Structure Jacobi Operator

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Abstract. In this paper we give a characterization of a real hypersurface of Type (A) in complex two-plane Grassmannians $G_2(\mathbb{C}^{m+2})$, which means a tube over a totally geodesic $G_2(\mathbb{C}^{m+1})$ in $G_2(\mathbb{C}^{m+2})$, by the Reeb parallel structure Jacobi operator $\nabla_\xi R_\xi = 0$.