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**Title:** Some recurrent normal Jacobi operators on real hypersurfaces in complex two-plane Grassmannians

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In this paper, we prove that there are no Hopf hypersurfaces in complex twoplane Grassmannians  $G_2(\mathbb{C}^{m+2})$  such that the normal Jacobi operator is generalized  $\mathfrak{F}$ -recurrent, where  $\mathfrak{F} = \operatorname{span}\{\xi, \xi_1, \xi_2, \xi_3\}$ . We also prove that there are no Hopf real hypersurfaces in  $G_2(\mathbb{C}^{m+2})$  such that the normal Jacobi operator is  $\mathfrak{D}^{\perp}$ recurrent and the Hopf principal curvature is invariant along the Reeb flow, where  $\mathfrak{D}^{\perp} = \operatorname{span}\{\xi_1, \xi_2, \xi_3\}.$ 

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