

# ON PARALLELISM FOR JACOBI OPERATORS IN COMPLEX TWO-PLANE GRASSMANNIANS

EUNMI PAK AND YOUNG JIN SUH

ABSTRACT. In relation to the generalized Tanaka-Webster connection, we consider a new notion of parallel Jacobi operator for real hypersurfaces in complex two-plane Grassmannians  $G_2(\mathbb{C}^{m+2})$  and show results about real hypersurfaces in  $G_2(\mathbb{C}^{m+2})$  with generalized Tanaka-Webster parallel structure Jacobi operator and normal Jacobi operator.

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EUNMI PAK AND YOUNG JIN SUH  
DEPARTMENT OF MATHEMATICS,  
KYUNGPOOK NATIONAL UNIVERSITY,  
DAEGU 702-701, REPUBLIC OF KOREA  
*E-mail address:* empak@hanmail.net  
*E-mail address:* yjsuh@knu.ac.kr

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