

Year: 2019

Vol.: 94

Fasc.: 1-2

Title: Real hypersurfaces in the complex hyperbolic quadric with parallel structure Jacobi operator

Author(s): Young Jin Suh, Juan de Dios Pérez and Changhwa Woo

We introduce the notion of parallel structure Jacobi operator for real hypersurfaces in the complex hyperbolic quadric $Q^{m*} = SO_{2,m}^0/SO_2SO_m$, $m \geq 3$, and prove a non-existence result for real hypersurfaces in $Q^{m*} = SO_{2,m}^0/SO_2SO_m$, $m \geq 3$, with parallel structure Jacobi operator.

Address:

Young Jin Suh
Department of Mathematics and RIRC
Kyungpook National University
41566 Daegu
Republic of Korea

Address:

Juan de Dios Pérez
Department of Geometry and Topology
University of Granada
18071 Granada
Spain

Address:

Changhwa Woo
Department of Mathematics Education
Woosuk University
55338 Jeonbuk
Republic of Korea