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Title: Commutativity of torsion and normal Jacobi operators on real hypersurfaces in the complex quadric

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On a real hypersurface in the complex quadric we can consider the Levi-Civita connection and, for any non-zero real constant k, the k-th generalized Tanaka–Webster connection. Associated to this connection we can define a differential operator whose difference with the Lie derivative is the torsion operator of the k-th generalized Tanaka–Webster connection. We prove the non-existence of real hypersurfaces in the complex quadric for which the torsion operators commute with the normal Jacobi operator of the real hypersurface.

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