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Title: Real hypersurfaces with commuting Jacobi operator in the complex quadric

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In this paper, first we introduce a new notion of commuting normal Jacobi operator $\bar{R}_N\phi = \phi\bar{R}_N$ or commuting structure Jacobi operator $R_\xi\phi = \phi R_\xi$ for real hypersurfaces in the complex quadrics $Q^m = SO_{m+2}/SO_mSO_2$. Next, we give a complete classification for real hypersurfaces in Q^m satisfying commuting normal Jacobi operator or structure Jacobi operator, respectively.

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