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**Short title:** A numerical comparison of two minimal residual methods for linear polynomials in unitary matrices.

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**Primary classification:** 65F10

**Secondary classification(s):**

**Review text:**

Numerical performance of the two specific methods adapted to the problems $(\alpha U + \beta I) = b$ with unitary $U$ is compared. A persuasively and increasingly better performance of the method using the generalized rather than standard Krylov subspaces is found at the growing ratio $|\alpha|/|\beta| > 1$.