

## A FOOTNOTE ON QUATERNION BLOCK-TRIDIAGONAL SYSTEMS\*

CECÍLIA COSTA<sup>†</sup> AND ROGÉRIO SERÓDIO<sup>‡</sup>

**Abstract.** Two direct methods, for solving a system of linear equations having matrices of quaternion entries as coefficients and independent terms, are proposed. Second-kind Chebyshev polynomials, in a matrix argument, are used as a tool to do certain calculations.

**Key words.** block tridiagonal matrices, quaternions, Chebyshev polynomials.

**AMS subject classifications.** 65F05.

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<sup>†</sup> Secção de Matemática, Universidade de Trás-os-Montes e Alto Douro, 5000 Vila Real, Portugal (nop62466@mail.telepac.pt).

<sup>‡</sup> Departamento de Matemática, Universidade da Beira Interior, 6200 Covilhã, Portugal (rsero-dio@noe.ubi.pt).