

An algebraic characterization of binary CSS-T codes

Hiram H. López

Virginia Tech

CSS-T codes were recently introduced as quantum error-correcting codes that respect a transversal gate. A CSS-T code depends on a CSS-T pair, which is a pair of binary codes (C_1, C_2) such that C_1 contains C_2 , C_2 is even, and the shortening of the dual of C_1 with respect to the support of each codeword of C_2 is self-dual. In this talk, we will give new conditions to guarantee that a pair of binary codes (C_1, C_2) is a CSS-T pair.

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