Refutation of operator for quantum simulation of Hamiltonian spectra

Taken from:

> Santagati, R., et al. (2018)."Witnessing eigenstates for quantum simulation of Hamiltonian spectra", Sci. Adv. 2018;4:eaap9646. advances.sciencemag.org/content/4/1/eaap9646.full

We assume the apparatus and method of Meth8/VŁ4 to evaluate this quantum operator, excluding the scalar of (1/(2^0.5)), for:

$$|0\rangle_C \otimes \hat{I}|\Psi\rangle_T + |1\rangle_C \otimes \hat{U}|\Psi\rangle_T \tag{3.1}$$

LET: pqrstuv |1>, |0>, uc_C, uc_I-circumflex, uc_T, uc_U-circumflex, uc_Psi;
& And; @ Not equivalent, XOR; + Or

The designated proof value is `T`; `F` is contradiction.
Repeating fragments of the 128-rows of 16-valued truth tables are row-major, as horizontally.

((q&r)@(s&(v&t)))+((p&r)@(u&(v&t))) ;
`FFFF FTTT TTTT TTFT, FFFF FTTT FFFF FTTT, TTTT TFTT TTTT TTTF` ; (3.2)

Eq. 3.2 as rendered is *not* tautologous. This means the quantum operator is not bivalent, but rather an operator for a probabilistic vector space.