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From embezzlement (of entanglement) to breaking any (conservation) law

We start with an example, the embezzlement of entanglement, in which the conservation of entanglement under local operations is violated (to any finite accuracy) by using an appropriate initial state. We derive from this example a generic method to manipulate quantum systems coherently despite apparent violation of conservation laws. (Partly based on joint work with Ben Toner, John Watrous, and Jesse Wang.)