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A Twisted Version of Kitaev's Quantum Double Model

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The quantum double model has been introduced by Kitaev in order to propose a model of quantum computing based on anyonic excitations, thus stable against perturbations. We propose a deformation of this model, induced by an external 3 form. In this model, the role of the quantum double is replaced by its twisted version, a quasi-Hopf algebra introduced in orbifold models by Dijkgraaf, Pasquier, and Roche.

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