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Excitations of isolated static charges in the charge $q=2$ abelian Higgs model

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I present lattice Monte Carlo evidence of localized quantum excitations of the fields surrounding static electric charges in the $q=2$ abelian Higgs model; such excitations would appear as excited states of isolated fermions. Since the $q=2$ abelian Higgs model is a relativistic version of the Landau-Ginzburg effective model of superconductivity, these results may have some application in a condensed matter context.

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