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**Bruno Nachtergaele, Robert Sims and Amanda Young\*** (amyoun@math.arizona.edu). *On the stability of frustration-free lattice fermion systems with topologically ordered ground states.* Preliminary report.

In recent years, there have been several results on the spectral gap stability for frustration-free quantum spin models with topologically ordered ground states. We will consider frustration-free lattice fermion systems with a non-vanishing spectral gap above one or more (infinite-volume) ground states and discuss recent progress on extending the stability results in the quantum spin setting to these fermion models. (Received February 07, 2018)