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John Nathan Kirkpatrick Francis* (jnkf@northwestern.edu). *Factorization homology and formal moduli*. Preliminary report.

After formulating the notion of a formal moduli problem of n -disk algebras, I'll show how they have the structure of observables in a quantum field theory. I'll describe how a natural algebraic duality on the moduli side interacts with a physical duality on the observable side. This is joint work with David Ayala. (Received August 20, 2013)