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Mahmoud Zeinalian* (mzeinalian@liu.edu). *String topology as a topological conformal field theory.*

We will discuss several ways of indexing operations on the Hochschild complex of an algebra with duality with chains on moduli spaces of metrized ribbon graphs of different sorts. We will discuss the relationship between these operations and the ones defined by means of geometric topology and homotopy theory. This is joint work with Kevin Costello and Thomas Tradler. (Received September 20, 2007)