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M A Mandell* (mmandell@indiana.edu). *E₂ Structures and Derived Koszul Duality in String Topology.*

We construct an equivalence of E_2 algebras between two models for the Thom spectrum of the free loop space that are related by derived Koszul duality. To do this, we describe the functoriality and invariance properties of topological Hochschild cohomology. Joint work with Andrew Blumberg. (Received August 20, 2018)