1151-55-41   **Katharine Adamyk**, **Teena Gerhardt**, **Kathryn Hess**, **Inbar Klang***
                    (`inbarklang@gmail.com`) and **Hana Kong**. *Hochschild homology for C_n-equivariant things.*

Let C_n denote the cyclic group of order n. Given a C_n-ring spectrum, Angeltveit, Blumberg, Gerhardt, Hill, Lawson, and Mandell defined its C_n-relative topological Hochschild homology. Just as Hochschild homology is an algebraic approximation to topological Hochschild homology, this has an algebraic approximation in the form of Hochschild homology for Green functors, defined by Blumberg, Gerhardt, Hill, and Lawson. I will introduce these concepts and discuss joint work with Adamyk, Gerhardt, Hess, and Kong in which we develop a theoretical framework and computational tools for these Hochschild homology theories. (Received August 02, 2019)

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