1147-55-657 **Jonathan Rubin*** (jrubin@math.ucla.edu). Algebraic properties of equivariant little discs and linear isometries operads.

An N_{∞} operad is an equivariant operad that parametrizes a homotopy coherent system of transfer maps. One of the initial motivations for their study was a desire to understand the relationship between additive and multiplicative structures on spectra, as presented by little discs and linear isometries operads. While the nonequivariant linear isometries operad and infinite little discs operad are equivalent, Blumberg and Hill proved that their N_{∞} counterparts can be dramatically different. In this talk, I will describe some further work in this direction. I will explain how to find generators for the sets of transfers parametrized by these operads, and then prove that not every N_{∞} operad is equivalent to either a linear isometries operad or a little discs operad. (Received January 28, 2019)