

Generic phenomena in chromatic homotopy theory I

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Abstract: In this pair of talks we will develop a framework that explains various generic phenomena in chromatic homotopy theory. After an introduction we will define ultraproducts of categories and specialize to the case of module categories and the $K(n)$ -local category. We will explain how the ultraproduct of the $K(n)$ -local categories over the primes yields a single category in which one can study the behavior of height n chromatic homotopy theory at sufficiently large primes. This is work in progress with Mark Behrens and Tomer Schlank.