1136-55-385 **Gabe Angelini-Knoll*** (angelini@math.msu.edu), Michigan State University, Department of Mathematics, 619 Red Cedar Road, C207 Wells Hall, East Lansing, MI 48824, and **J.D. Quigley**.
Chromatic complexity of topological periodic cyclic homology of y(n). Preliminary report.

The Thom spectra $y(n)$ were defined by Mahowald-Ravenel-Shick in their paper on the telescope conjecture. They interpolate between the sphere spectrum and the Eilenberg-Mac Lane spectrum of a finite field of order p and they can be considered "infinite complexes of type n." Work of Hesselholt-Madsen and Nikolaus-Scholze shows that topological periodic cyclic homology of the Eilenberg-Mac Lane spectrum of the field with p elements is a wedge of suspensions of integral Eilenberg Maclane spectra, demonstrating a shift in chromatic height. In work in progress with J.D. Quigley, we construct Thom spectra $z(n)$ that filter between the sphere and the integral Eilenberg Maclane spectrum and we give evidence that topological periodic cyclic homology of $y(n)$ can be described in terms of these spectra. Our approach is based on the one outlined by Bruner and Rognes in their paper on homological homotopy fixed point spectral sequences. The goal is to give an analog of the Hesselholt-Madsen result at all chromatic heights. (Received January 20, 2018)