## 1138-55-185

**Daniel G. Davis**<sup>\*</sup> (dgdavis@louisiana.edu) and **Vojislav Petrovic**. A long exact sequence for the  $E_2$ -term of the homotopy fixed point spectral sequence for a tower of concrete discrete *G*-spectra. Preliminary report.

Let G be a profinite group and let  $\{X_i\}_i$  be a tower of concrete discrete G-spectra. It is not known that the  $E_2$ -term of the homotopy fixed point spectral sequence (hfpSS) for  $(\operatorname{holim}_i X_i)^{hG}$  has  $E_2$ -term always given by continuous cohomology, but we show that there is a long exact sequence where the "term in the middle" is the  $E_2$ -term and the "term on the right" is continuous cohomology. A special case of this hfpSS is the well-known K(n)-local  $E_n$ -Adams spectral sequence (KEASS) for  $L_{K(n)}X$ , where X is an arbitrary spectrum, and so our long exact sequence gives a new criterion for when the KEASS has  $E_2$ -term given by the continuous cohomology of the extended Morava stabilizer group. We discuss the relationship between this general criterion and some previous results in the literature about when the KEASS has the aforementioned nice form. (Received February 09, 2018)