

1143-55-568

Calvin D Woo* (calwoo@iu.edu), 831 E 3rd Street, Rawles Hall, Bloomington, IN 47405. *On a candidate for a relative log THH.*

In contrast to the localization sequences for algebraic K-theory constructed by Quillen, the localization sequences of Hesselholt-Madsen/Blumberg-Mandell for THH involved a mysterious term connected to logarithmic differentials. However, it can be questioned whether there is a geometric picture underlying the sequence. Crystalline cohomology's connection to THH leads one to conjecture extra structures on the logarithmic term that gives it an algebro-geometric meaning.

In this talk I will sketch out a candidate for a relative log THH by a construction in analogy to classical Mokrane-Hyodo-Steenbrink complexes equipped with monodromy operators. (Received August 21, 2018)