

1150-55-401

Dominic L Culver* (dculver@illinois.edu) and **J.D. Quigley**. *On the complex motivic Hermitian K -theory based Adams spectral sequence.*

In the 1980s, Mahowald considered the Adams spectral sequence based on connective real K -theory spectrum, often denoted as bo . While connective real K -theory does not have a nice homological description of the E_2 -term, Mahowald was able to determine the E_1 -page and establish vanishing lines, allowing him to prove the height 1 telescope conjecture.

In this talk, I will describe joint work with JD Quigley where we carry out Mahowald's program in the complex motivic world. I will indicate how certain computations can be made and analogues of Mahowald's vanishing lines. I will also formulate a potential "motivic telescope conjecture." (Received July 14, 2019)