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Eric Peterson* (ericp@math.berkeley.edu), 970 Evans Hall #3840, Berkeley, CA 94720.

Determinantal K -theory and a few applications.

Chromatic homotopy theory is an attempt to divide and conquer algebraic topology by studying a sequence of what were first assumed to be “easier” categories. These categories come with rich new complications of their own, but in trade they are equipped with intriguing and exciting connections to number theory. I’ll describe the most basic of their strange features, then I’ll describe an ongoing project which addresses a small part of the “chromatic splitting conjecture”. (Received August 28, 2014)