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Michael Hill* (mikehill@virginia.edu), **Michael Hopkins** (mjh@math.harvard.edu) and **Douglas Ravenel** (doug+pi@math.rochester.edu). *Non-existence of Kervaire invariant one elements and a homotopy fixed point spectral sequence.*

In recent work, a certain homotopy fixed point spectral sequence was used to resolve the long-standing question of the existence of Kervaire invariant one elements of high degree. The talk will focus upon the relevant equivariant E-infinity ring spectrum and on using its homotopy fixed point spectral sequence to recover information from the Adams-Novikov spectral sequence. (Received September 01, 2009)