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Michael Hill (mikehill@virginia.edu), **Michael Hopkins** (mjh@math.harvard.edu) and **Douglas Ravenel*** (doug+pi@math.rochester.edu). *On the non-existence of elements of Kervaire invariant one.*

A major point of this talk will be to frame, in mathematical perspective, the recent solution of this long-standing question. An overview of the argument will also be provided, including a discussion of the Detection, Gap, and Periodicity Theorems which form the main results of the recent preprint of the same title. (Received September 01, 2009)