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Agnes Beaudry* (beaudry@math.uchicago.edu), 5436 S Ridgewood CT APT 3, Chicago, IL 60615. *Cohomology : A Mirror of Homotopy.*

The philosophy of chromatic homotopy theory is that the stable homotopy groups of the sphere S can be re-assembled from the homotopy groups of a family of spectra $L_{K(n)}S$. Roughly, $L_{K(n)}S$ is the n -th chromatic layer of S . There are spectral sequences whose input is the cohomology of a group, the Morava Stabilizer group, and whose output is the homotopy of the n -th chromatic layer. In this talk, I will illustrate of how some of these spectral sequences mirror the homotopy groups of $L_{K(n)}S$ and of S . (Received September 11, 2014)