1106-55-351   **Irina Bobkova*** (`irina.bobkova@gmail.com`). *Computations in the $K(2)$-local category at the prime 2.*

Chromatic homotopy theory describes the homotopy of the p-local sphere spectrum S through a family of localizations $L_{K(n)}S$ with respect to Morava K-theories $K(n)$. Considerable information about $L_{K(n)}S$ can be derived from the action of the Morava stabilizer group on the Lubin-Tate theory. One of the major computational tools is breaking up the homotopy of $L_{K(n)}S$ using various finite subgroups of the Morava stabilizer group. We will discuss some recent results and computations in the $K(2)$-local category at the prime $p = 2$. (Received August 24, 2014)