1154-55-587   **Jun Hou Fung*** (`jhfung@math.harvard.edu`), Harvard University, Department of Mathematics, 1 Oxford Street, Cambridge, MA 02138. *Strict units of commutative ring spectra.*

Just as an ordinary commutative ring has a multiplicative group of units, a E_∞-ring spectrum R also has a spectrum of units $gl_1 R$, which plays an important role for example in twisted cohomology theories. However, these spectra are typically very large, and to understand twists by Eilenberg-Mac Lane spaces or to isolate those units that come from geometry, it sometimes suffices to study the space of *strict units* of R. Previously, Hopkins and Lurie have computed the strict units of Morava E-theories, but much remains unknown about them in general.

In this talk, I will introduce these strict units and illustrate various methods for computing them for other commutative ring spectra R, and how these calculations relate to other interesting questions in homotopy theory. (Received September 07, 2019)