Valentina Joukhovitski\* (valya@umich.edu). Level structures and topological modular forms. Several years ago Mike Hopkins and collaborators have introduced topological modular forms, tmf for short. After a while Mark Behrens has described how to construct tmf with level-N structures when N is prime to the characteristic of the base field p.

I will briefly introduce topological modular forms as introduced by Mike Hopkins and collaborators along with work of Mark Behrens on level-N structures on tmf. As a conclusion of the talk I will outline my own work on the construction of tmf with level- $p^n$  structures. (Received September 10, 2007)