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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)