ID de Contribution: **3**   Type: **Invited research talk**

Characterististic classes in TMF_0(3)

lundi 29 juin 2015 15:00 (50 minutes)

We develop a theory of characteristic classes for the cohomology of topological modular forms with \Gamma_0(3)-level structures. These classes are supposed to play an important role in the determination of the string bordism ring. It turns out that the TMF_0(3)-cohomology of BString is freely generated by Pontryagin classes and one extra class which relates to the theory of cubical structures for line bundles on elliptic curves.

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