



ID de Contribution: 3

Type: **Invited research talk**

Characteristic 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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