

$TMF_0(3)$ -Characteristic Classes for String Bundles

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Abstract: In joint work with Gerd Laures, we compute the completed $TMF_0(3)$ -cohomology of $BString$, using Real-oriented spectra as defined by Hu-Kriz. Generators are given by a version of Pontryagin classes and a version of the sigma-orientation. The future goal is to identify suitably connective versions of $TMF_0(3)$ as summands of $MString$.