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Chern classes of vector bundles on the moduli space of curves from vertex algebras. Preliminary report.

One can form vector bundles of coinvariants defined by modules over conformal vertex algebras, and these generalize vector bundles given by integrable modules at a fixed level over affine Lie algebras. I will talk about how one can determine the total Chern character of the vertex algebra bundles, given that appropriate hypotheses hold, following the approach by A. Marian, D. Oprea, R. Pandharipande, A. Pixton, and D. Zvonkine for the classical case. We learn in particular that the classes are tautological. (Received September 15, 2019)