1012-57-207 **Kiyoshi Igusa*** (`igusa@brandeis.edu`), Mathematics Department MS 050, Brandeis University, Waltham, MA 02454-9110. *Tautological classes on the Torelli group.* Preliminary report.

The question is whether or not these cohomology classes are nontrivial. I will discuss this question and related questions about $IOut(F_n)$, the corresponding subgroup of the outer automorphism group of the free groups. The relationship with axiomatic higher torsion will also be mentioned. (Received September 20, 2005)