1012-14-46

**D.** Arcara\* (arcara@math.utah.edu), Department of Mathematics, University of Utah, 155 S. 1400 E. Room 233, Salt Lake City, UT 84121, and **F. Sato**. A relation in the tautological ring of  $\overline{\mathcal{M}}_{g,1}$ . Preliminary report.

Mumford proved that  $\lambda_g + \lambda_{g-1}\psi + \cdots + \psi^g$  is 0 in the Chow ring of  $\mathcal{M}_{g,1}$ . We find an explicit formula for  $\lambda_g + \lambda_{g-1}\psi + \cdots + \psi^g$  in the tautological ring of  $\overline{\mathcal{M}}_{g,1}$  as a combination of similar classes supported on boundary strata. (Received August 23, 2005)