

Dimitri Zvonkine: **Double ramification cycles**

Given n integers a_1, \dots, a_n with vanishing sum, the double ramification cycle $DR_g(a_1, \dots, a_n)$ is the locus of stable curves (C, x_1, \dots, x_n) such that the divisor $\sum a_i x_i$ is principal. We present an explicit formula for the homology class represented by the double ramification cycle.