Aaron Pixton* (apixton@mit.edu). The homogeneous double ramification cycle.

The double ramification cycle parametrizes curves of genus $g$ admitting maps to the projective line with specified ramification profiles over two points. Recent formulas for this cycle in terms of tautological classes (on the moduli space of stable curves) have established that it is polynomial in the parts of the ramification profiles. I will discuss some aspects of the top degree part of this polynomial, a homogeneous polynomial of degree $2g$. (Received August 21, 2018)