

1155-14-566

Aaron Pixton* (pixton@umich.edu). *Boundary splitting and socle evaluations.*

Cohomological field theories are families of cohomology classes on the moduli space of stable curves that satisfy various compatibility axioms. I will discuss some families of cohomology classes that only satisfy a single boundary splitting axiom but otherwise have many nice features (such as being of pure cohomological degree). I will conclude by giving a conjecture relating one of these families to a socle (top-degree) evaluation in the tautological ring of the moduli space of bridgeless curves. (Received January 21, 2020)