1137-14-335 **Vance T. Blankers*** (blankersv@gmail.com), 6703 Antigua Dr Unit 46, Fort Collins, CO 80525.

Rigidity and Extremality of Hyperelliptic Classes in Genus Two.

A hyperelliptic class on a moduli space of marked curves is the Chow class of the closure of the locus of hyperelliptic curves with ℓ marked Weierstrass points, m marked conjugate pairs of points, and n marked free points. We show that in genus two such classes are rigid and extremal in the cone of effective codimension-$(\ell + m)$ classes on $\overline{\mathcal{M}}_{2,\ell+2m+n}$ using the rich recursive structure of the relevant moduli spaces. Our result establishes an infinite family of rigid and extremal classes in arbitrarily-high codimension. (Received February 06, 2018)