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Hirzebruch invariants of symmetric products of quasi-projective varieties

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ABSTRACT

Hirzebruch characteristic classes for singular varieties have been recently defined by Brasellet-Schuermann-Yokura as an attempt to unify previously known characteristic class theories for singular spaces (e.g., MacPherson-Chern classes, Baum-Fulton-MacPherson Todd classes and resp. Cappell-Shaneson L-classes). In this talk, I will discuss equivariant analogues of these classes, and show how these can be used to calculate generating series for Hirzebruch classes of symmetric products of possibly singular quasi-projective varieties. This is joint work with Cappell, Schuermann and Shaneson.