

## **On Hirzebruch classes for singular varieties**

by IRMA PALLARÉS TORRES (Catholic University of Leuven)

Hirzebruch theory unifies three theories of characteristic classes of smooth manifolds: Chern classes, Todd classes and Thom-Hirzebruch L-classes. Brasselet, Schürmann and Yokura extended Hirzebruch classes to singular varieties using natural transformations, and unified in a functorial sense three theories of characteristic classes of singular varieties: the Chern transformation of MacPherson-Schwartz, the Todd transformation of Baum-Fulton-MacPherson and the L-transformation of Cappell-Shaneson. In this talk, we will discuss Hirzebruch classes and delve into the relationships between these transformations.