
DINGXIN ZHANG, Stony Brook University

Degeneration of slopes

Given a smooth family of algebraic varieties over a perfect field of characteristic p , Grothendieck proves that the Newton polygons of their cohomologies jump up under specialization. I shall present a result that generalizes this phenomenon when the family acquires singularities. This could be thought as an equal characteristic version of a theorem of Berthelot, Esnault and Rülling.