

Castelnuovo-Mumford Regularity - I
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Castelnuovo-Mumford regularity is a numerical invariant attached to graded ideals and modules (and to sheaves on projective varieties). It indicates the complexity of computing syzygies. In the first talk, mostly expository, we will look at some general properties of this invariant. In the second talk, we will focus on a recent counter-example by McCullough and Peeva to an old conjecture of Eisenbud and Goto.

Pre-requisites : Basic commutative algebra.