

Introduction to Uniformity in Commutative Algebra #2

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One of the critical themes in the field is that of reduction to characteristic p . We will discuss an old result of Zariski and Nagata concerning multiplicities which leads to the concept of symbolic powers, and we will give a characteristic p proof of their result. Uniformity plays an important role in the reduction process, as do various closure operations (which will be discussed in detail by Holger Brenner).