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Intersection numbers through residual intersections.

Many invariants of an algebraic variety can be expressed as a function of intersection numbers of Chern classes on the variety. Linear constraints on these intersection numbers can be accessed through various residual intersections combined with either a symbolic or a numeric computation. With enough linear constraints, each of the intersection numbers can be determined. This talk will illustrate, through concrete examples, the relative ease with which these intersection numbers can be computed and the implications of knowing these numbers. (Received February 23, 2010)