



Speaker: Robin Hartshorne
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Monday, March 5, 2012
3:00 PM
258 Hurley Hall

Title: The Hilbert scheme of curves in \mathcal{P}^3

Abstract:

I will report on some recent work concerning the problem of whether the Hilbert scheme of locally Cohen-Macaulay curves of given degree and genus in \mathcal{P}^3 is connected. If one restricts to nonsingular curves only, there are examples that it is not connected. On the other hand, if one allows all one-dimensional closed subschemes, then the whole Hilbert scheme is connected. Hence the interest in locally CM curves, which are the curves that appear most useful in liaison theory.