

Harvard-MIT Algebraic Geometry Seminar

Compact Moduli of Singular Curves

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Deligne and Mumford compactified the space of smooth curves by identifying a class of singular curves, namely the Deligne-Mumford stable curves, with the property that every incomplete 1-parameter family of smooth curves has a unique limit contained in that class. In this talk, we will give a general recipe for producing alternate classes of singular curves with this same unique-limit property. (Schubert's moduli space of pseudostable curves and Hassett's moduli spaces of weighted pointed curves will arise as special cases of this construction.)

Tuesday December 11th
3:00 p.m.
MIT (2-142)