

Harvard-MIT Algebraic Geometry Seminar

Moduli of curves with prescribed normalization and singularities

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Deligne and Mumford's stable curves are not the only singular curves which can be used to compactify the moduli space of smooth curves. Understanding alternative compactifications (such as those of Schubert, Hassett-Hyeon and Smyth) involves studying the deformation theory of singular curves. We will begin this talk by discussing that theory and its practice. This will lead us to define and analyze moduli spaces of curves with prescribed normalization and singularities, and then to consider possible compactifications of these spaces.

Tuesday March 18th
3:00 p.m.
Harvard Science Center
Room 507