

1067-14-1276

**Jesse Kass\*** (jkass@umich.edu), Department of Mathematics, University of Michigan, 530 Church Street, Ann Arbor, MI 48103, and **Sebastian Casalaina-Martin** (casa@math.colorado.edu) and **Filippo Viviani** (viviani@mat.uniroma3.it). *Local Structure of the Compactified Jacobian.*

The Jacobian variety of a non-singular curve is a basic tool in algebraic geometry, and a fundamental question is “how to extend this construction to singular curves?” Starting with work of Igusa in the 1950’s, a great deal of effort has gone into answering this question. Today we have a detailed understanding of how to assign a degenerate Jacobian to a singular curve.

However, our understanding of the geometry of these schemes is less extensive. In my talk I discuss my work on the local geometry of the Caporaso-Pandharipande degenerate Jacobian. This description suggests some interesting combinatorial problems for future study.

This work is joint with Sebastian Casalaina-Martin and Filippo Viviani. (Received September 20, 2010)