1106-03-1937 James Freitag* (freitagj@gmail.com), Department of Mathematics, University of California, Berkeley, 970 Evans Hall, Berkeley, CA 94720-3840. Unlikely intersections and differential algebra.
We will explain how differential algebra can be used to give effective bounds for the intersection of isogeny classes of transcendental points in products of modular curves with non-weakly special subvarieties. The finiteness results come from doing intersection theoretic computations in jet spaces and from a model theoretic analysis of the differential equation satisfied by the *j*-function. We will also discuss generalizations of the result to higher dimensional moduli spaces. (Received September 15, 2014)