



Parametrizing moduli spaces of curves over finite fields and applications

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Resumo: Given a finite field F_q and a genus g , how to span all F_q -isomorphism classes of curves of genus g in an efficient way? I will present some notions of good families in order to do so and make them explicit in the case of plane quartics. As an application (or motivation), we will speak about the question of the maximal number of points on a curve of genus 3 over F_q .