Universitat de Barcelona
Departament d'Àlgebra i Geometria

SEMINARI DE GEOMETRIA ALGEBRAICA 2004-05

Divendres, dia 4 de Març
Aula B1. Facultat de Matemàtiques

15:00 *Formulas for the arithmetic-geometric mean of curves of genus 3*

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Resum. The arithmetic-geometric mean algorithm for calculation of elliptic integrals of the first type was intoduced by Gauss. The analog algorithm for Abelian integrals of genus 2 was introduced by Richelot (1837) and Humbert (1901). We present the analogous algorithm for Abelian integrals of genus 3.