CURVAS ALGÉBRICAS E TEMAS AFINS

Reduction type of plane quartics in special strata of their moduli space

Elisa Lorenzo Garcia
Université de Rennes 1
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Resumo: Reduction type of plane quartics in special strata of their moduli space (joint work with I. Bouw, N. Coppola, P. Kilicer, S. Kunzweiler, A. Somoza)
Let Y be a plane quartic with automorphism group containing a subgroup isomorphic to the Klein group . Then Y: Ax^4+By^4+Cz^4+ay^2z^2+bz^2x^2+c^2x^2y^2=0. In this talk, we will deermine the reduction type of Y in terms of the valuations of different combinations of its coefficients. We do this by using the theory of admisible covers and decorated graphs. We find 20 options for the decorated graphes and 12 types of reduction.