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The Conference on Arithmetics, Geometry, and Coding Theory was held at the International Center of Mathematical Meetings of Luminy (CIRM) in Marseilles from September 26-30, 2005. The conference focused on the interaction between number theory and algebraic geometry and the interaction between coding theory and cryptography. It addressed such subjects as curves covered by the Hermitian curve, towers of function fields, bilinear complexity of the multiplication in the finite fields, codes on various varieties, estimate of the Picard number of surfaces via p -adic cohomology, minimal distance of codes on a surface, and the Euler-Kronecker constant on global fields.

Public key cryptography provided an opportunity for talks on curves and their jacobians: jacobians of C_{ab} curves, a CRT algorithm to construct genus 2 curves over finite fields, hyperelliptic jacobians and the Steinberg representations. Other talks were devoted to the relations between the enumerator polynomial of codes and modular forms and to a similar construction with construction A of lattices from binary codes to build convolutional codes starting from block codes.

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