

Algebraic curves

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Heures (Hebdo) 4

Cours 2

Exercices 2

Pratique 0

Total 56

Langue anglais

Semestre Printemps

Mode d'évaluation Examen oral

Session Juillet

Format de l'enseignement Cours, exercices

Cursus	Type	ECTS
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Pas de cursus	-	-
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Objectifs

This course gives an introduction to algebraic geometry and develops the theory of complex algebraic curves.

Description

1. Projective space(s). Plane algebraic curves. Bezouts theorem.
2. Rational curves.
3. Algebraic curves as complex manifolds. Branched coverings. The Riemann-Hurwitz formula.
4. Line bundles and divisors on curves.
5. The Riemann-Roch theorem for curves.
6. Metrics of constant negative curvature and uniformization theorem.
7. Moduli of elliptic curves.

Divers

Commentaires