Algebraic curves

| Gleb Smirnov - 14M252

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'enseignment	

Cursus	Type	ECTS
Pas de cursus	-	-

Objectifs

This course gives and 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 RiemannRoch theorem for curves.
6. Metrics of constant negative curvature and uniformization theorem.
7. Moduli of elliptic curves.

Divers

Commentaires