FROBENIUS DISTRIBUTIONS IN GL-EXTENSIONS
A.C. COJOCARU

1. Course outline

(1) Primes
(2) Elliptic curves
(3) Division fields
(4) Elliptic curves mod $p$
(5) Characterization of Frobenius in division fields
(6) Questions about the elementary divisors of an elliptic curve mod $p$
(7) Questions about the order of an elliptic curve mod $p$
(8) Questions about the Frobenius of an elliptic curve mod $p$
(9) Higher perspectives: global settings
(10) Higher perspectives: higher dimensions

2. Project foundations

Any of the following papers:


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- Institute of Mathematics “Simion Stoilow” of the Romanian Academy, 21 Calea Grivitei St, Bucharest, 010702, Sector 1, Romania
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