

1. Record Nr.	UNINA9910151927303321
Titolo	Geometry and Arithmetic [[electronic resource] /] / Carel Faber, Gavril Farkas, Robin de Jong
Pubbl/distr/stampa	Zuerich, Switzerland, : European Mathematical Society Publishing House, 2012
ISBN	3-03719-619-X
Descrizione fisica	1 online resource (383 pages)
Collana	EMS Series of Congress Reports (ECR) ; , 2523-515X
Classificazione	14-xx11-xx
Soggetti	Analytic geometry Algebraic number theory Algebraic geometry Number theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Nef divisors on $\mathcal{M}_{0,n}$ from GIT / Valery Alexeev, David Swinarski -- Inoue type manifolds and Inoue surfaces: a connected component of the moduli space of surfaces with $K^2=7$, $p_g = 0$ / Ingrid Bauer, Fabrizio Catanese -- Non-rationality of the symmetric sextic Fano threefold / Arnaud Beauville -- Brill-Noether loci of stable rank-two vector bundles on a general curve / Ciro Ciliberto, Flaminio Flamini -- Mordell-Weil groups and Zariski triples / Jose Ignacio Cogolludo-Agustin, Remke Kloosterman -- Approximate computations with modular curves / Jean-Marc Couveignes, Bas Edixhoven -- A remark on a conjecture of Paranjape and Ramanan / Friedrich Eusen, Frank-Olaf Schreyer -- On extensions of the Torelli map / Angela Gibney -- The classes of singular moduli in the generalized Jacobian / Benedict H. Gross -- The Eisenstein motive for the cohomology of $GSp(2)$ / Gunter Harder -- Cohomology of the moduli stack of coherent sheaves on a curve / Jochen Heinloth -- New methods for bounding the number of points on curves over finite fields / Everett W. Howe, Kristin E. Lauter -- Wildly ramified actions and surfaces of general type arising from Artin-Schreier curves / Hiroyuki Ito, Stefan Schroer -- A note on a supersingular K3 surface in characteristic 2 / Toshiyuki Katsura, Shigeyuki Kondo -- The intuitive definition of Du Bois singularities /

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Sommario/riassunto

This volume contains 21 articles written by leading experts in the fields of algebraic and arithmetic geometry. The treated topics range over a variety of themes, including moduli spaces of curves and abelian varieties, algebraic cycles, vector bundles and coherent sheaves, curves over finite fields, and algebraic surfaces, among others. The volume originates from the conference "Geometry and Arithmetic", which was held on the island of Schiermonnikoog in The Netherlands in September 2010.
