Record Nr. UNINA9910788797903321 Quadratic forms: algebra, arithmetic, and geometry // Ricardo Baeza **Titolo** [and three others], editors Pubbl/distr/stampa Providence, Rhode Island:,: American Mathematical Society,, [2009] ©2009 **ISBN** 0-8218-8172-8 0-8218-4648-5 Descrizione fisica 1 online resource (424 p.) Collana Contemporary mathematics, ; 493, 0271-4132 Disciplina 512.7/4 Soggetti Forms, Quadratic Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali "Algebraic and Arithmetic Theory of Quadratic Forms, December 13-19, 2007, Frutillar, Chile." "This volume presents a collection of articles that are based on talks delivered at the International Conference on the Algebraic and Arithmetic Theory of Quadratic Forms held in Frutillar, Chile in December 2007"--P. [4] of cover. Nota di bibliografia Includes bibliographical references. Nota di contenuto Contents -- Preface -- List of Participants -- H1(X, I?) of conics and Witt kernels in characteristic 2 -- Pythagoras numbers and quadratic field extensions -- On perfection relations in lattices -- Linear independence of local densities of quadratic forms and its application to the theory of Siegel modular forms -- Representation of reduced special groups in algebras of continuous functions -- Solubility of Fermat equations -- Multiplicative properties of integral binary quadratic forms -- Effective structure theorems for symplectic spaces via height -- Orthogonal involutions on algebras of degree 16 and the Killing form of E8 (with an appendix by Kirill Zainoulline) -- The first Zariski co-homology group of the Witt sheaf over a split simply connected simple algebraic group -- On families of testing formulae for a pp-formula -- Siegel modular forms of small weight and the Witt-operator -- On isotropy of quadratic pairs -- Specialization of forms in the presence of characteristic 2: first steps -- Representation of integers by special positive definite integral quadratic forms --

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