Record Nr. UNINA9910480165303321 **Titolo** Quadratic forms: algebra, arithmetic, and geometry / / Ricardo Baeza [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 Disciplina 512.7/4 Soggetti Forms, Quadratic Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia "Algebraic and Arithmetic Theory of Quadratic Forms, December 13-Note generali 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. ""Contents""; ""Preface""; ""List of Participants""; ""H1(X, I?) of conics and Nota di contenuto 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 continous 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 cohomology 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""
""Hyper-isotropy of bilinear forms in characteristic 2"""A historical view of the Pythagoras numbers of fields""; ""The extensions of R-places and application""; ""Essential dimension""; ""On the Pfister number of quadratic forms""; ""Martin Knesera€?s work on quadratic forms and algebraic groups""; ""Enumerating perfect forms""; ""Reduction mod I of Theta Series of Level In""; ""On a reciprocity theorem of Gauss""; ""A bound of the number of reduced Arakelov divisors of a number field""