1. Record Nr. UNINA9910959854403321

Autore	Mühlherr Bernhard
Titolo	Tits Polygons
Pubbl/distr/stampa	Providence : , : American Mathematical Society, , 2022 ©2022
ISBN	9781470470180 1470470187
Edizione	[1st ed.]
Descrizione fisica	1 online resource (132 pages)
Collana	Memoirs of the American Mathematical Society ; ; v.275
Classificazione	17C4020E4251E1251E24
Altri autori (Persone)	WeissRichard M
Disciplina	512/.2
Soggetti	Moufang loops Jordan algebras Buildings (Group theory) Graph theory Polygons Nonassociative rings and algebras -- Jordan algebras (algebras, triples and pairs) -- Exceptional Jordan structures Group theory and generalizations -- Structure and classification of infinite or finite groups -- Groups with a BN-pair; buildings Geometry -- Finite geometry and special incidence structures -- Generalized quadrangles, generalized polygons Geometry -- Finite geometry and special incidence structures -- Buildings and the geometry of diagrams
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"January 2022, volume 275, number 1352 (sixth of 6 numbers)."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Tits polygons -- Tits hexagons -- Groups of relative rank 1 -- Appendix / by Holger P. Petersson.
Sommario/riassunto	"We introduce the notion of a Tits polygon, a generalization of the notion of a Moufang polygon, and show that Tits polygons arise in a natural way from certain configurations of parabolic subgroups in an arbitrary spherical buildings satisfying the Moufang condition. We establish numerous basic properties of Tits polygons and characterize a large class of Tits hexagons in terms of Jordan algebras. We apply this classification to give a "rank 2" presentation for the group of F-rational points of an arbitrary exceptional simple group of F-rank at

least 4 and to determine defining relations for the group of F-rational points of an an arbitrary group of Frank 1 and absolute type D4, E6, E7 or E8 associated to the unique vertex of the Dynkin diagram that is not orthogonal to the highest root. All of these results are over a field of arbitrary characteristic"--