

1. Record Nr.	UNINA9910795262503321
Autore	Lorscheid Oliver
Titolo	Quiver grassmannians of extended Dynkin type D . Part I Schubert systems and decompositions into affien spaces // Oliver Lorscheid, Thorsten Weist
Pubbl/distr/stampa	Providence, RI : , : American Mathematical Society, , [2019] ©2019
ISBN	1-4704-5399-1
Descrizione fisica	1 online resource (90 pages) : illustrations
Collana	Memoirs of the American Mathematical Society, , 0065-9266 ; ; September 2019, volume 261, number 1258
Classificazione	13F6014F4514M1514N1516G2005E1014M1716G60
Disciplina	516.3/52
Soggetti	Dynkin diagrams Grassmann manifolds Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Background -- Schubert systems -- First applications -- Schubert decompositions for type D_n -- Proof of Theorem 4.1.
Sommario/riassunto	"Let Q be a quiver of extended Dynkin type D_n . In this first of two papers, we show that the quiver Grassmannian $\text{Gre}(M)$ has a decomposition into affine spaces for every dimension vector e and every indecomposable representation M of defect -1 and defect 0 , with exception of the non-Schurian representations in homogeneous tubes. We characterize the affine spaces in terms of the combinatorics of a fixed coefficient quiver for M . The method of proof is to exhibit explicit equations for the Schubert cells of $\text{Gre}(M)$ and to solve this system of equations successively in linear terms. This leads to an intricate combinatorial problem, for whose solution we develop the theory of Schubert systems. In Part 2 of this pair of papers, we extend the result of this paper to all indecomposable representations M of Q and determine explicit formulae for the F -polynomial of M "--