

1. Record Nr.	UNINA990007396450403321
Autore	Zack, Andreas
Titolo	Studien zum "römischen Völkerrecht" : Kriegserklärung, Kriegsbeschluss, Beeidung und Ratifikation zwischenstaatslicher Verträge, internationale Freundschaft und Feindschaft während der römischen Republik bis zum Beginn des Prinzipats / Andreas Zack
Pubbl/distr/stampa	Göttingen : Duehrkohp & Radicke, 2001
ISBN	3-89744-139-X
Descrizione fisica	XII, 305 p. ; 21 cm
Collana	Göttinger Forum für Altertumswissenschaft , Beihefte Geschichte ; 5
Disciplina	340.54
Locazione	DDR NAP02
Collocazione	Direz. XV D 15
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr.	UNINA9910813200603321
Autore	Fomin Sergey
Titolo	Cluster algebras and triangulated surfaces . Part II Lambda lengths // Sergey Fomin, Dylan Thurston
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , [2018] ©2018
ISBN	1-4704-4823-8
Descrizione fisica	1 online resource (110 pages)
Collana	Memoirs of the American Mathematical Society ; ; Volume 255, number 1223
Disciplina	512.44
Soggetti	Cluster algebras
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Cover -- Title page -- Chapter 1. Introduction -- Chapter 2. Non-normalized cluster algebras -- Chapter 3. Rescaling and normalization -- Chapter 4. Cluster algebras of geometric type and their positive realizations -- Chapter 5. Bordered surfaces, arc complexes, and tagged arcs -- Chapter 6. Structural results -- Chapter 7. Lambda lengths on bordered surfaces with punctures -- Chapter 8. Lambda lengths of tagged arcs -- Chapter 9. Opened surfaces -- Chapter 10. Lambda lengths on opened surfaces -- Chapter 11. Non-normalized exchange patterns from surfaces -- Chapter 12. Laminations and shear coordinates -- Chapter 13. Shear coordinates with respect to tagged triangulations -- Chapter 14. Tropical lambda lengths -- Chapter 15. Laminated Teichmuller spaces -- Chapter 16. Topological realizations of some coordinate rings -- Chapter 17. Principal and universal coefficients -- Appendix A. Tropical degeneration and relative lambda lengths -- Appendix B. Versions of Teichmuller spaces and coordinates -- Bibliography -- Back Cover.
Sommario/riassunto	For any cluster algebra whose underlying combinatorial data can be encoded by a bordered surface with marked points, the authors construct a geometric realization in terms of suitable decorated Teichmuller space of the surface. On the geometric side, this requires opening the surface at each interior marked point into an additional geodesic boundary component. On the algebraic side, it relies on the

notion of a non-normalized cluster algebra and the machinery of tropical lambda lengths. The authors' model allows for an arbitrary choice of coefficients which translates into a choice of a family of integral laminations on the surface. It provides an intrinsic interpretation of cluster variables as renormalized lambda lengths of arcs on the surface. Exchange relations are written in terms of the shear coordinates of the laminations and are interpreted as generalized Ptolemy relations for lambda lengths. This approach gives alternative proofs for the main structural results from the authors' previous paper, removing unnecessary assumptions on the surface.
