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	Autore	Gross Mark
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	Altri autori (Persone)	HackingPaul SiebertBernd
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	Soggetti	Functions, Theta Surfaces, Algebraic Mirror symmetry Calabi-Yau manifolds Algebraic geometry -- Surfaces and higher-dimensional varieties -- Mirror symmetry Algebraic geometry -- Surfaces and higher-dimensional varieties -- Calabi-Yau manifolds Algebraic geometry -- Surfaces and higher-dimensional varieties -- Fano varieties
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Nota di contenuto	Cover -- Title page -- Introduction -- Chapter 1. The affine geometry of the construction -- 1.1. Polyhedral affine pseudomanifolds -- 1.2. Convex, piecewise affine functions -- Chapter 2. Wall structures -- 2.1. Construction of $\mathcal{X}^{\text{aff}}$ -- 2.2. Monomials, rings and gluing morphisms -- 2.3. Walls and consistency -- 2.4. Construction of $\mathcal{X}^{\text{aff}}$ -- Chapter 3. Broken lines and canonical global functions -- 3.1. Broken lines -- 3.2. Consistency and rings in codimension two -- 3.3. The canonical global functions $\mathcal{G}$ -- 3.4. The conical case -- 3.5. The multiplicative structure -- Chapter 4. The projective case -theta functions -- 4.1. Conical affine structures -- 4.2. The cone over a polyhedral pseudomanifold -- 4.3. Theta functions and the Main Theorem -- 4.4. The action of the relative torus -- 4.5. Jagged paths -- Chapter 5. Additional parameters -- 5.1. Twisting the construction -- 5.2. Twisting by gluing data -- Chapter 6. Abelian varieties and other examples -- Appendix A. The GS case -- A.1. One-parameter families -- A.2. The universal formulation -- A.3. Equivariance -- A.4. The non-simple case in two dimensions -- Bibliography -- Back Cover.
Sommario/riassunto	"We show that a large class of maximally degenerating families of n-dimensional polarized varieties comes with a canonical basis of sections of powers of the ample line bundle. The families considered are obtained by smoothing a reducible union of toric varieties governed by a wall structure on a real n-(pseudo-)manifold. Wall structures have previously been constructed inductively for cases with locally rigid singularities [Gross and Siebert, From real affine geometry to complex geometry (2011)] and by Gromov-Witten theory for mirrors of log Calabi-Yau surfaces and K3 surfaces [Gross, Pandharipande and Siebert, The tropical vertex ; Gross, Hacking and Keel, Mirror symmetry for log Calabi-Yau surfaces (2015); Gross, Hacking, Keel, and Siebert, Theta functions and K3 surfaces (In preparation)]. For trivial wall structures on the n-torus we retrieve the classical theta functions. We anticipate that wall structures can be constructed quite generally from maximal degenerations. The construction given here then provides the homogeneous coordinate ring of the mirror degeneration along with a canonical basis. The appearance of a canonical basis of sections for certain degenerations points towards a good compactification of moduli of certain polarized varieties via stable pairs, generalizing the picture for K3 surfaces [Gross, Hacking, Keel, and Siebert, Theta functions and K3 surfaces (In preparation)]. Another possible application apart from mirror symmetry may be to geometric quantization of varieties with effective anti-canonical class"--