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September 2023



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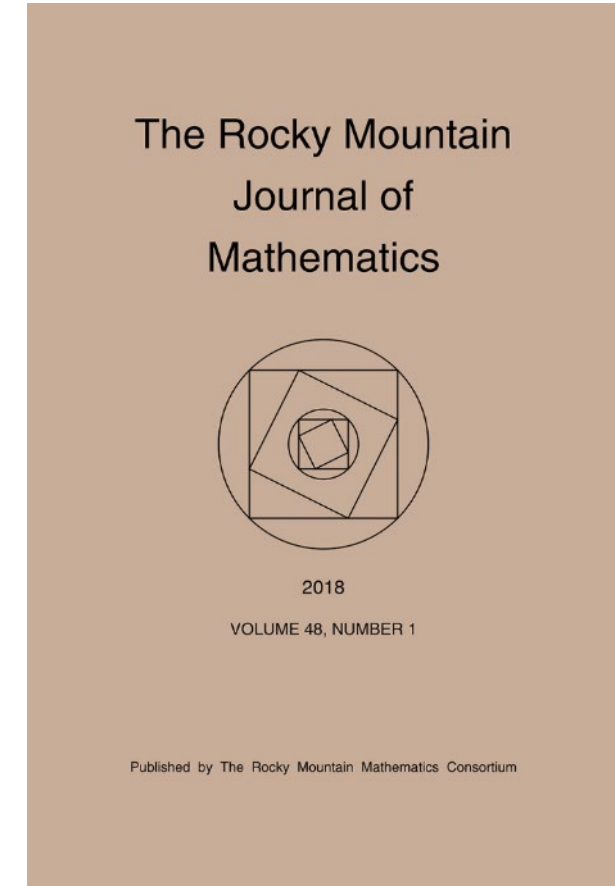
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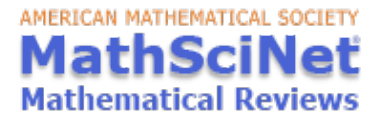
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Ntalampekos, Dimitrios; Romney, Matthew

Polyhedral approximation of metric surfaces and applications to uniformization. (English)

Zbl 07714222

Duke Math. J. 172, No. 9, 1673-1734 (2023).

The authors show that any length surface is the Gromov-Hausdorff limit of polyhedral surfaces with controlled geometry. A length surface is a length metric space homeomorphic to a 2-manifold, with or without boundary. A polyhedral surface is formed by gluing locally finitely many planar polygonal faces isometrically along edges, equipped with the induced length metric. A sequence of maps $f_n : X_n \rightarrow Y_n$, $n \in \mathbb{N}$, between metric spaces is an approximately isometric sequence if f_n is a ϵ_n -isometry, $\epsilon_n > 0$, for all $n \in \mathbb{N}$, and $\epsilon_n \rightarrow 0$ as $n \rightarrow \infty$. For any metric space, the Hausdorff 2-measure of a set $A \subset X$ is defined by $\mathcal{H}^2(A) = \lim_{\delta \rightarrow \infty} \mathcal{H}_\delta^2(A)$, where $\mathcal{H}_\delta^2(A) = \inf\{\sum_{j=1}^{\infty} C \text{diam}(A_j)^2\}$, $C > 0$, and the infimum is taken over all collections of sets $\{A_j\}_{j=1}^{\infty}$, which $A \subset \bigcup_{j=1}^{\infty} A_j$ and $\text{diam}(A_j) < \delta$ for each j . The authors prove the following theorems.

Theorem. Let X be a length surface. There exists a sequence of polyhedral surfaces $(X_n)_{n=1}^{\infty}$ each homeomorphic to X such that the following properties hold for $K \geq 1$:

- (1) There exists an approximately isometric sequence of maps $f_n : X_n \rightarrow X$, $n \in \mathbb{N}$. Moreover, each f_n is a topological embedding;
- (2) For each compact set $A \subset X$, $\limsup_{n \rightarrow \infty} \mathcal{H}^2(f_n^{-1}(A)) \leq K \mathcal{H}^2(A)$.

For $K \geq 1$, a mapping $h : X \rightarrow Y$ between two metric spaces of locally finite Hausdorff 2-measures is weakly K -quasiconformal if it is continuous, surjective and monotone and if it satisfies the modulus inequality $\text{mod } \Gamma \leq K \text{mod } h(\Gamma)$ for every path family Γ in X . Let \mathbb{D} denote the open unit disk in \mathbb{C} and $\hat{\mathbb{C}}$ is the Riemann sphere.

Theorem. Let X be a length surface of locally finite Hausdorff 2-measure homeomorphic to $\hat{\mathbb{C}}$, $\overline{\mathbb{D}}$ or \mathbb{C} . Then there is a weakly K -quasiconformal mapping $h : \Omega \rightarrow X$ for $K = 4/\pi$, where Ω is either $\hat{\mathbb{C}}$, $\overline{\mathbb{D}}$ or \mathbb{D} or \mathbb{C} , respectively.

Also, the authors replace the definition of weak quasiconformality by other statements.

Reviewer: Dmitri V. Prokhorov (Saratov)



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Abstract

In this article we use cluster structures and mirror symmetry to explicitly describe a natural class of Newton–Okounkov bodies for Grassmannians. We consider the Grassmannian $\mathbb{X} = \text{Gr}_{n,k}(\mathbb{C}^n)$, as well as the mirror dual *Landau–Ginzburg model* $(\check{\mathbb{X}}^0, W : \check{\mathbb{X}}^0 \rightarrow \mathbb{C})$, where $\check{\mathbb{X}}^0$ is the complement of a particular anticanonical divisor in a Langlands dual Grassmannian $\check{\mathbb{X}} = \text{Gr}_k(\mathbb{C}^n)^*$ and the superpotential W has a simple expression in terms of Plücker coordinates. Grassmannians simultaneously have the structure of an \mathcal{A} -cluster variety and an \mathcal{X} -cluster variety; roughly speaking, a cluster variety is obtained by gluing together a collection of tori along birational maps. Given a plabic graph or, more generally, a cluster seed G , we consider two associated coordinate systems: a *network* or \mathcal{X} -cluster chart $\Phi_G : (\mathbb{C}^*)^{k(n-k)} \rightarrow \mathbb{X}^0$ and a *Plücker cluster* or \mathcal{A} -cluster chart $\Phi_G^{\vee} : (\mathbb{C}^*)^{k(n-k)} \rightarrow \check{\mathbb{X}}^0$. Here \mathbb{X}^0 and $\check{\mathbb{X}}^0$ are the open positroid varieties in \mathbb{X} and $\check{\mathbb{X}}$, respectively. To each \mathcal{X} -cluster chart Φ_G and ample boundary divisor D in $\mathbb{X} \setminus \mathbb{X}^0$, we associate a *Newton–Okounkov body* $\Delta_G(D)$ in $\mathbb{R}^{k(n-k)}$ which is defined as the convex hull of rational points; these points are obtained from the multidegrees leading terms of the Laurent polynomials $\Phi_G^{\vee}(f)$ for f on \mathbb{X} with poles bounded by some multiple of D . On the other hand, using the \mathcal{A} -cluster chart Φ_G^{\vee} on the mirror side, we obtain a set of rational polytopes—described in terms of inequalities—by writing the superpotential W as a Laurent polynomial in the \mathcal{A} -cluster coordinates and then tropicalizing. Our first main result is that the Newton–Okounkov bodies $\Delta_G(D)$ and the polytopes obtained by tropicalization on the mirror side coincide. As an application, we construct degenerations of the Grassmannian to normal toric varieties corresponding to (dilates of) these Newton–Okounkov bodies. Our second main result is an explicit combinatorial formula in terms of Young diagrams, for the lattice points of the Newton–Okounkov bodies, in the case in which the cluster seed G corresponds to a plabic graph. This formula has an interpretation in terms of the quantum Schubert calculus of Grassmannians.

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Duke Math. J.
Vol. 168 • No. 18 • 1 December 2019



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Abstract

In this article we use cluster structures and mirror symmetry to explicitly describe a natural class of Newton–Okounkov bodies for Grassmannians. We consider the Grassmannian $\mathbb{X} = \text{Gr}_{n,k}(\mathbb{C}^n)$, as well as the mirror dual *Landau–Ginzburg model* $(\check{\mathbb{X}}^0, W : \check{\mathbb{X}}^0 \rightarrow \mathbb{C})$, where $\check{\mathbb{X}}^0$ is the complement of a particular anticanonical divisor in a Langlands dual Grassmannian $\check{\mathbb{X}} = \text{Gr}_k(\mathbb{C}^n)^*$ and the superpotential W has a simple expression in terms of Plücker coordinates. Grassmannians simultaneously have the structure of an \mathcal{A} -cluster variety and an \mathcal{X} -cluster variety; roughly speaking, a cluster variety is obtained by gluing together a collection of tori along birational maps. Given a plabic graph or, more generally, a cluster seed G , we consider two associated coordinate systems: a *network* or \mathcal{X} -cluster chart $\Phi_G : (\mathbb{C}^*)^{k(n-k)} \rightarrow \mathbb{X}^0$ and a *Plücker cluster* or \mathcal{A} -cluster chart $\Phi_G^{\vee} : (\mathbb{C}^*)^{k(n-k)} \rightarrow \check{\mathbb{X}}^0$. Here \mathbb{X}^0 and $\check{\mathbb{X}}^0$ are the open positroid varieties in \mathbb{X} and $\check{\mathbb{X}}$, respectively. To each \mathcal{X} -cluster chart Φ_G and ample boundary divisor D in $\mathbb{X} \setminus \mathbb{X}^0$, we associate a *Newton–Okounkov body* $\Delta_G(D)$ in $\mathbb{R}^{k(n-k)}$ which is defined as the convex hull of rational points; these points are obtained from the multidegrees leading terms of the Laurent polynomials $\Phi_G^{\vee}(f)$ for f on \mathbb{X} with poles bounded by some multiple of D . On the other hand, using the \mathcal{A} -cluster chart Φ_G^{\vee} on the mirror side, we obtain a set of rational polytopes—described in terms of inequalities—by writing the superpotential W as a Laurent polynomial in the \mathcal{A} -cluster coordinates and then tropicalizing. Our first main result is that the Newton–Okounkov bodies $\Delta_G(D)$ and the polytopes obtained by tropicalization on the mirror side coincide. As an application, we

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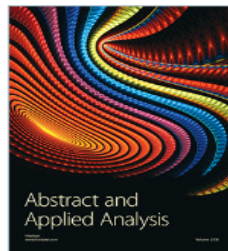
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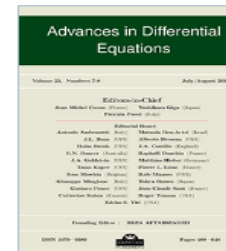


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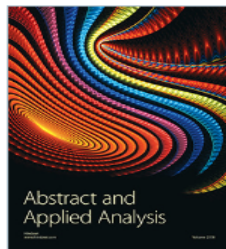
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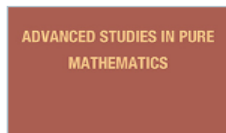
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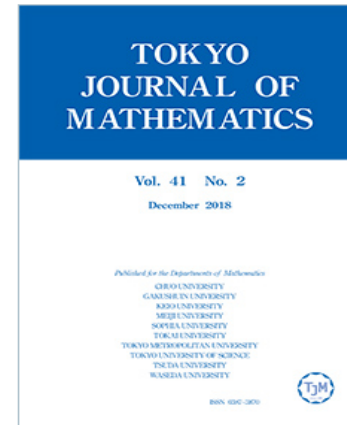
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Takuji SATO

Tokyo J. Math. 23(2): 387-401 (December 2000). DOI: 10.3836/tjm/1255958678

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TOKYO J. MATH.
VOL. 23, NO. 2, 2000

An Example of an Almost Kähler Manifold with Pointwise Constant Holomorphic Sectional Curvature

Takuji SATO
Kanazawa University
(Communicated by Y. Maeda)

1. Introduction.

Let $M = (M, J, g)$ be an almost Hermitian manifold and $U(M)$ the unit tangent bundle of M . Then the holomorphic sectional curvature $H = H(x)$ ($x \in U(M)$) can be regarded as a differentiable function on $U(M)$. If the function H is constant along each fiber, then M is called a space of pointwise constant holomorphic sectional curvature. Especially, if H is constant on the whole of $U(M)$, then M is called a space of constant holomorphic sectional curvature.

An almost Hermitian manifold $M = (M, J, g)$ is called an almost Kähler manifold if its Kähler form Ω is closed, or equivalently,

$$g((\nabla_X J)Y, Z) + g((\nabla_Y J)Z, X) + g((\nabla_Z J)X, Y) = 0,$$

for all smooth vector fields X, Y, Z on M .

Concerning the integrability of the almost complex structure of an almost Kähler manifold, S. I. Goldberg [2] conjectured that the almost complex structure of a compact Einstein almost Kähler manifold is integrable (and the manifold is necessarily Kähler). In connection with this conjecture, P. Nurozeński and M. Przanowski [4] recently constructed a non-symplectic

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Gregory Arone, Pascal Lambrechts, Ismar Volić

Acta Mathematica Vol. 199, Issue 2, (Jan 2007) , pgs 153-198

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