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MSP 出版社主席 Robion C. Kirby (罗宾·柯比博士) 是加州大学伯克利分校数学系名誉教授, 是低维拓扑研究领域极具影响力的专家, 他指导的博士生超过 50 名。他是首位获得美国国家科学院“NAS Award for Scientific Reviewing”奖项的数学家 (1995 年)。

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总裁

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Analysis & PDE	APDE	2157-50	1948-20	8	2,048	1.257
Comm. in Appl. Math. and	CAMCo	1559-39	2157-54	1	200	2.4
Geometry & Topology	GT	1465-30	1364-03	5	3,125	0.974
Involve: A journal of mathematics	Involve	1944-41	1944-41	5	640	
Journal of Mechanics of Materials and	JoMMS	1559-39	1559-39	5	tba	0.46
Annals of Mathematics	Annals	0003-48	1939-09	6	2,400	3.027
Pacific Journal of Mathematics	PJM	0030-87	0030-87	12	3,072	0.465
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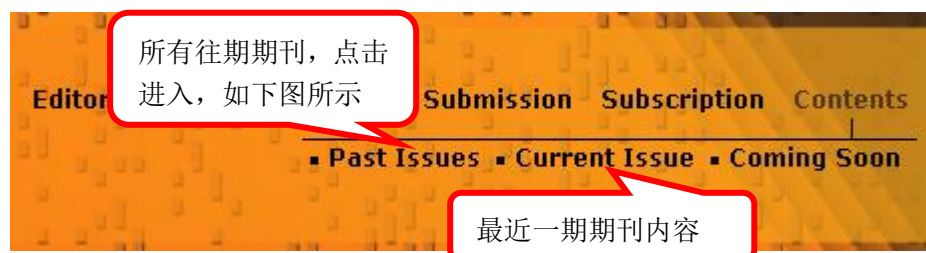
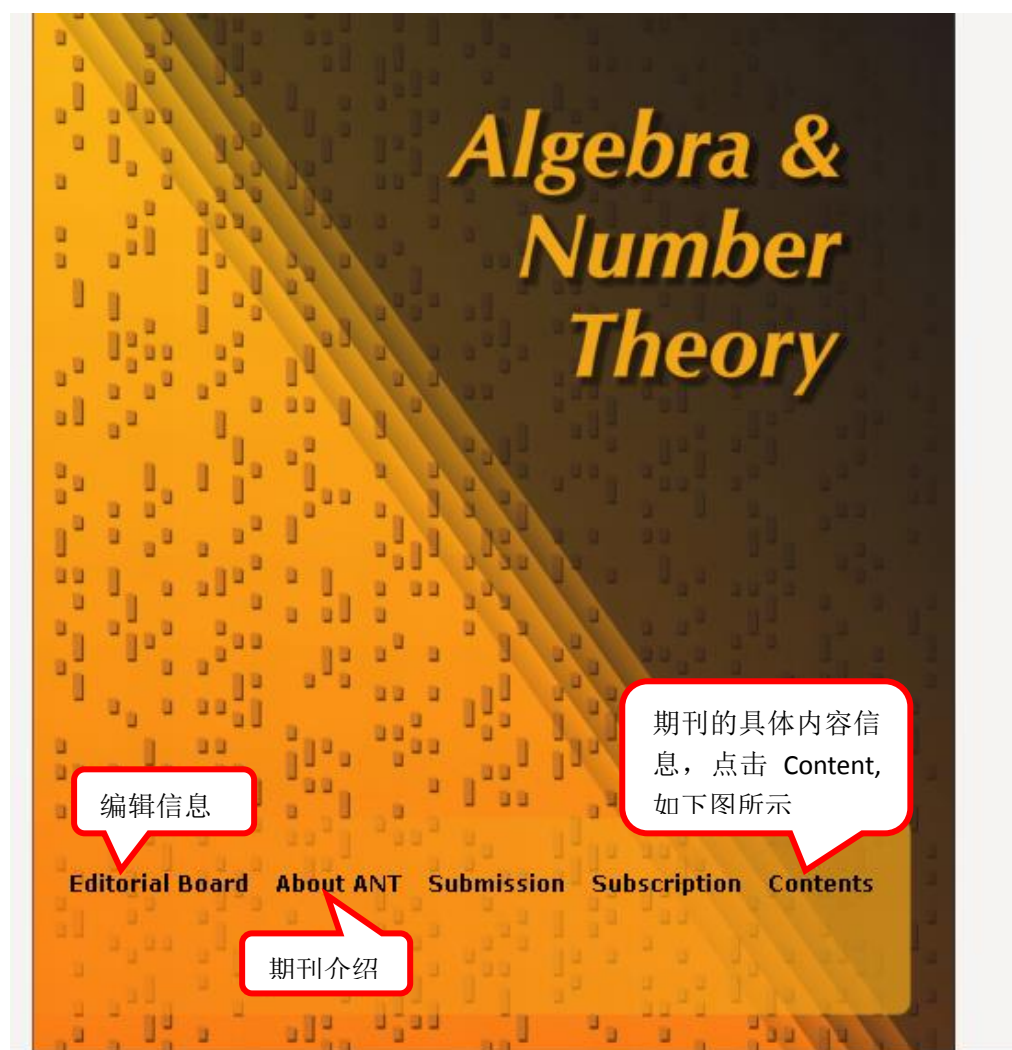
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Multiplicities associated to graded families of ideals
Steven Dale Cutkosky

Vol. 7 (2013), No. 9, 2059–2083
DOI: [10.2140/ant.2013.7.2059](https://doi.org/10.2140/ant.2013.7.2059)

Abstract 文章概要

We prove that limits of multiplicities associated to graded families of ideals exist under very general conditions. Most of our results hold for analytically unramified equicharacteristic local rings with perfect residue fields. We give a number of applications, including a “volume = multiplicity” formula, generalizing the formula of Lazarsfeld and Mustață, and a proof that the epsilon multiplicity of Ulrich and Validashti exists as a limit for ideals in rather general rings, including analytic local domains. We prove a generalization of this to generalized symbolic powers of ideals proposed by Herzog, Puthenpurakal and Verma. We also prove an asymptotic “additivity formula” for limits of multiplicities and a formula on limiting growth of valuations, which answers a question posed by the author, Kia Dalili and Olga Kashcheyeva. Our proofs are inspired by a philosophy of Okounkov for computing limits of multiplicities as the volume of a slice of an appropriate cone generated by a semigroup determined by an appropriate filtration on a family of algebraic objects.

Keywords 关键词

multiplicity, graded family of ideals, Okounkov body

Mathematical Subject Classification 2010

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