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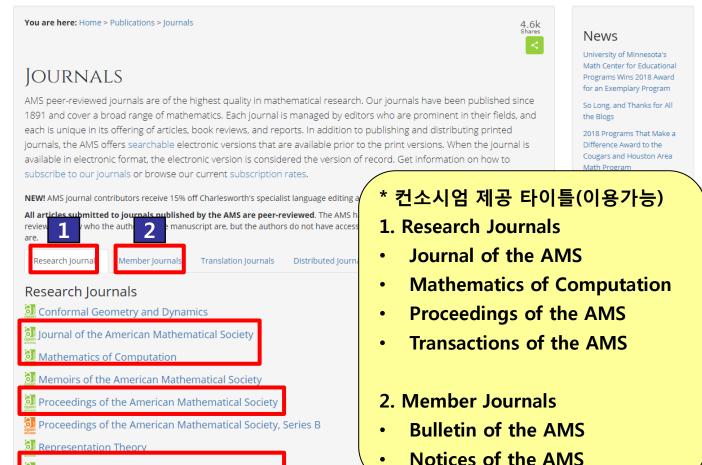
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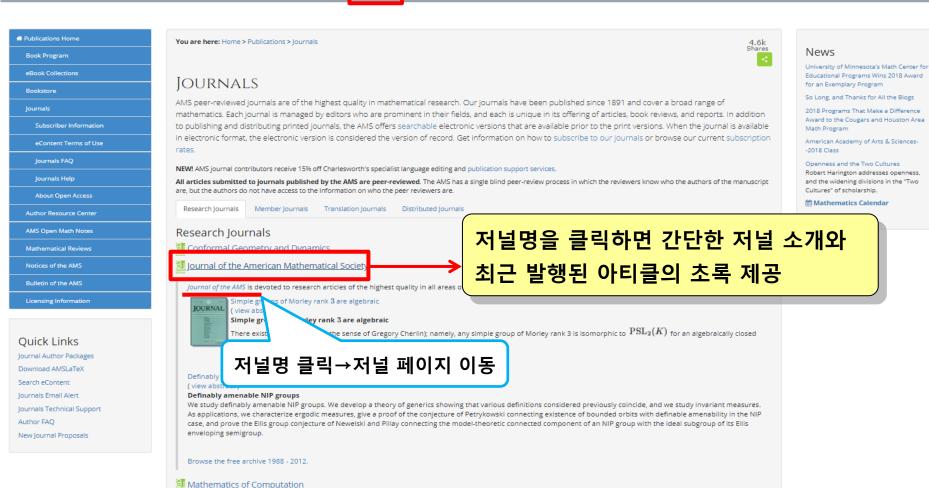
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Articles for which AMS Early View is available:

Tomoyuki Abe

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(Primary MSC 11S40, 14F30)

DOI: https://doi.org/10.1090/jams/898

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Dawei Chen, Martin Möller and Don Zagier

Quasimodularity and large genus limits of Siegel-Veech constants

(Primary MSC 00-XX)

DOI: https://doi.org/10.1090/jams/900 Early View PDF (AMS members only)

* Articles In Press

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B. Recently Published Articles (최신 발행 아티클)



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The coarse geometry of Tsirelson's space and applications

- F. Baudier, G. Lancien and Th. Schlumprecht.
- J. Amer. Math. Soc.

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Linear and bilinear T(b) theorems à la Stein

Árpád Bényi and Tadahiro Oh

Abstract

In this work, we state and prove versions of the linear and bilinear T(b) theorems involving quantitative estimates, analogous to the quantitative linear T(1) theorem due to Stein.

1. Introduction

The impact of the classical Calderón-Zygmund theory permeates through analysis and PDEs. Nowadays, both the linear and multilinear aspects of this theory are well understood and continue to be intertwined with aspects of analysis that are beyond their reach, such as those considering the bilinear Hilbert transform.

Two fundamental results in the linear theory from the 1980s are the co David and Journé $\frac{4}{4}$ and T(b) theorem of David, Journé, and Semme strongly motivated by the study of the Cauchy integral on a Lipschitz Calderón commutators. Their gist lies in understanding the boundedn appropriate simpler testing conditions.

In the T(1) theorem, one needs to test a singular operator and its trans 1. If both the operator and its transpose were $L^{\infty} \to BMO$ bounded, interpolation 6, the operator would be bounded on L^2 . The remarkab is that one does not need to test the operator on the whole L^{∞} , but just Going back to the Cauchy integral operator associated to a Lipschitz is not necessarily easy to test the operator on 1. It is, however, much the L^{∞} function 1 + iA'. Thus, as the name suggests, the T(b) theorem by replacing the constant function 1 with a suitable L^{∞} function b or, replacing 1 with two suitable functions b_0 and b_1 in L^{∞} on which we transpose. The bilinear Calderón-Zygmund theory has its own version theorems, such as those proved by Grafakos and Torres 8 and by Ha Theorems D and E below.

In this work, we revisit the T(b) theorem, both in the linear and biline

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Definition 2.7

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J. Amer. Math. Soc. 31 (2018), 609-641

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Olivier Frécon.

I. Amer. Math. Soc. 31 (2018), 643-659

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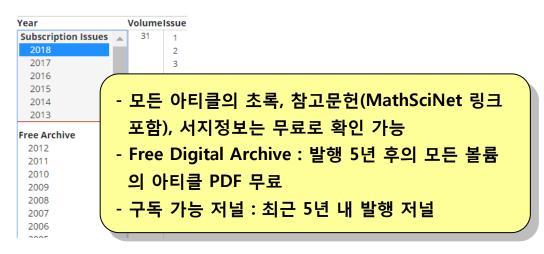


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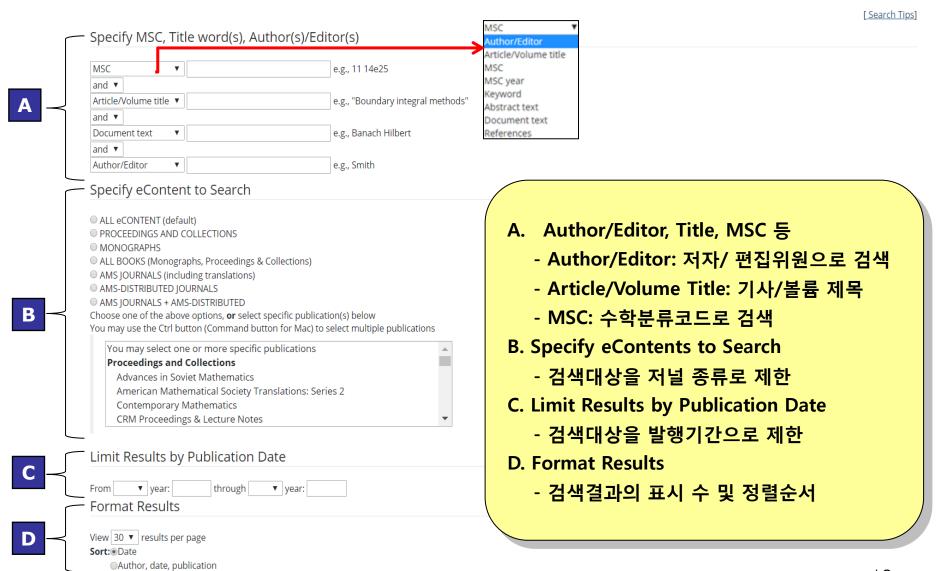


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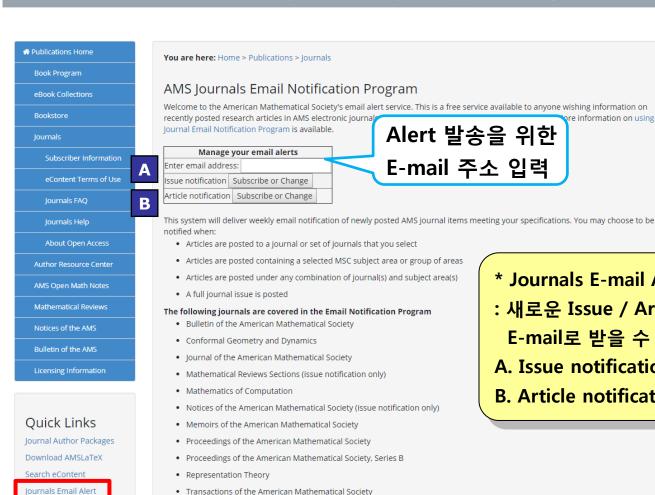
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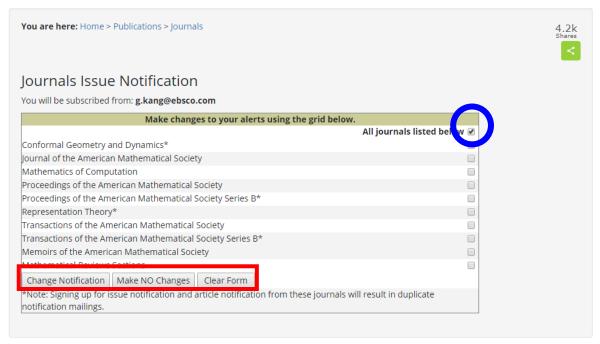
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