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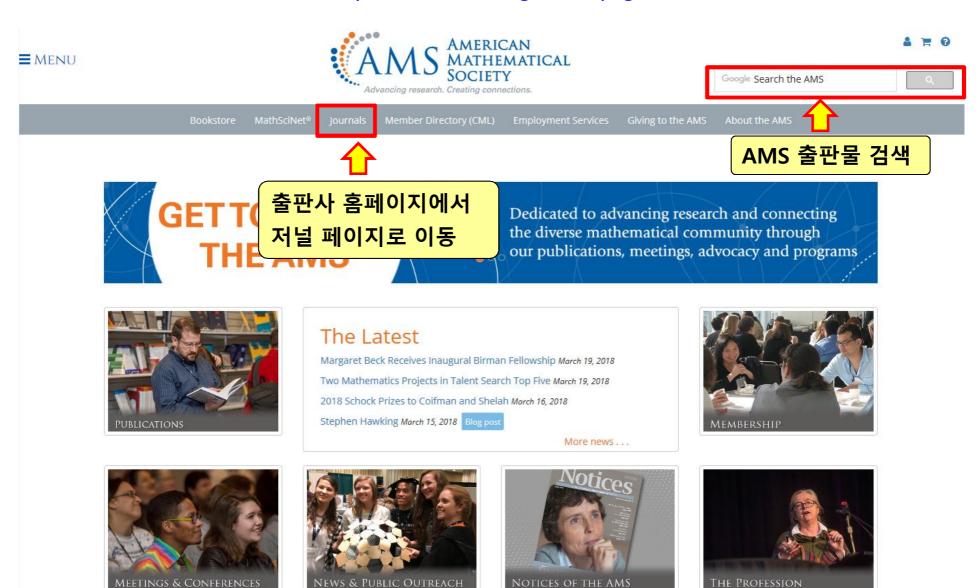


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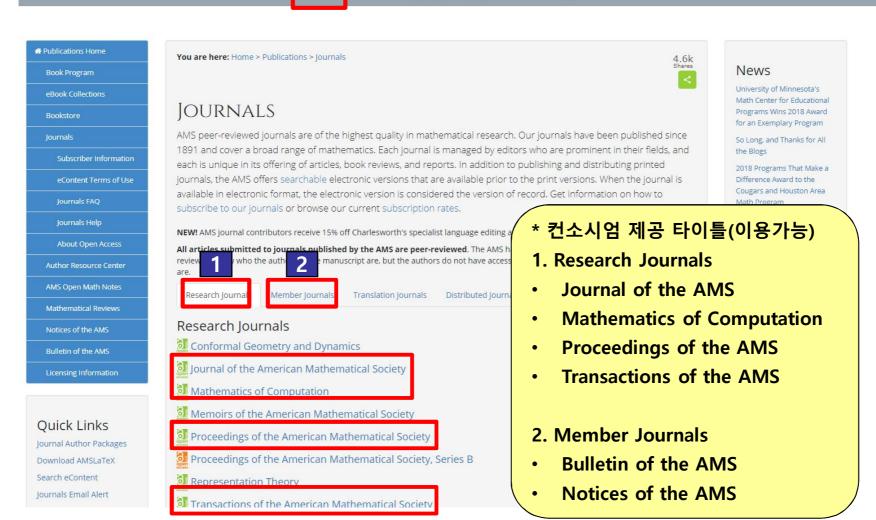
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be sense of Gregory Cherlin); namely, any simple group of Morley rank 3 is isomorphic to $\operatorname{PSL}_2(K)$ for an algebraically closed

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We study definably amenable NIP groups. We develop a theory of generics showing that various definitions considered previously coincide, and we study invariant measures. As applications, we characterize ergodic measures, give a proof of the conjecture of Petrykowski connecting existence of bounded orbits with definable amenability in the NIP case, and prove the Ellis group conjecture of Newelski and Pillay connecting the model-theoretic connected component of an NIP group with the ideal subgroup of its Ellis enveloping semigroup.

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Tomoyuki Abe

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(Primary MSC 11S40, 14F30)

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Dawei Chen, Martin Möller and Don Zagier

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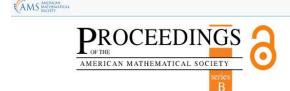
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Linear and bilinear T(b) theorems à la Stein

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 c 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, to interpolation 6, the operator would be bounded on L^2 . The remarkable 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 Hartheorems 10 and 11 below.

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

Table of Contents Abstract 1. Introduction 2. Linear Calderón-Zygmund theory Definition 2.1 Definition 2.2 2.1. Classical linear T(1) and T(b) theorems Definition 2.3 Definition 2.4 Theorem A (T(1) theorem). Definition 2.5 Definition 2.6 Definition 2.7 Theorem B (T(b) theorem).

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Artem Chernikov and Pierre Simon.

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

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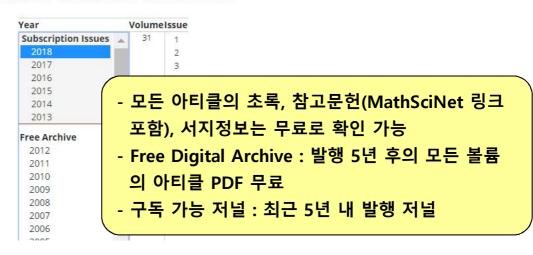


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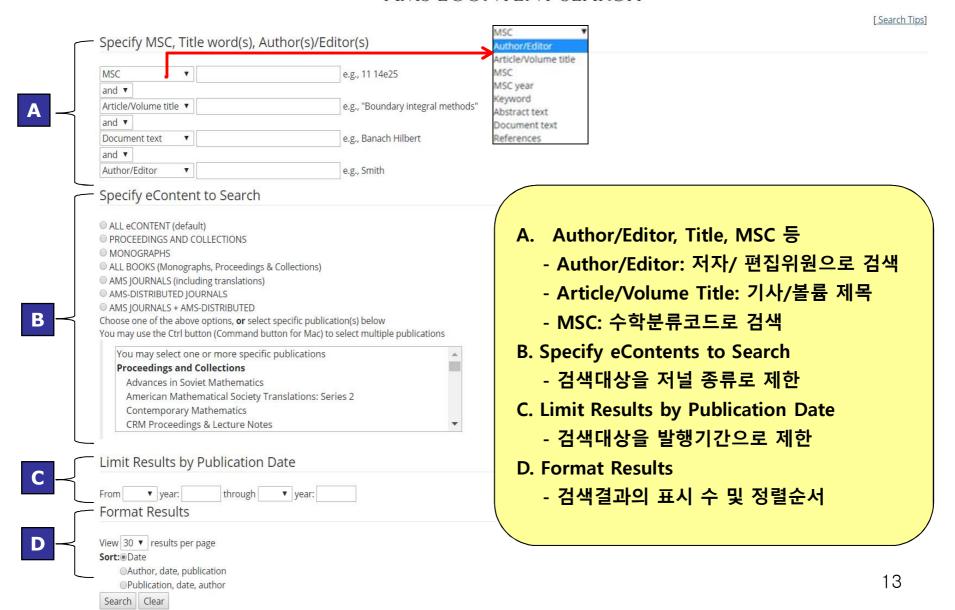


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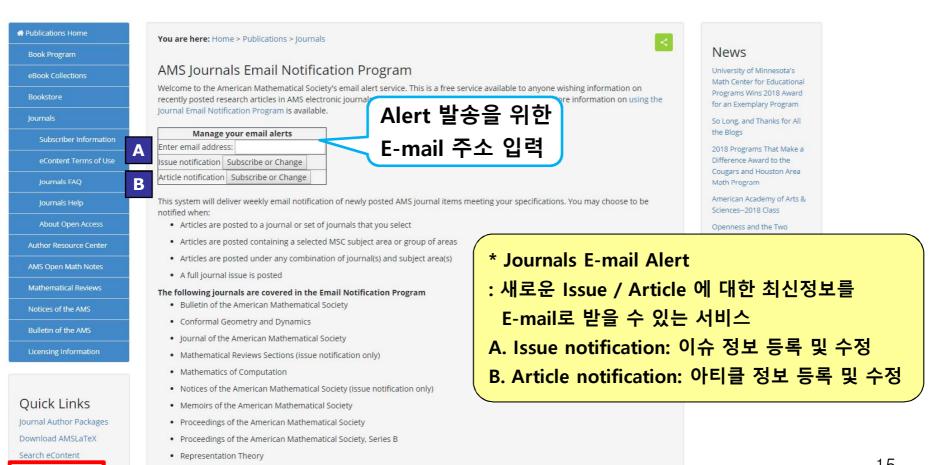


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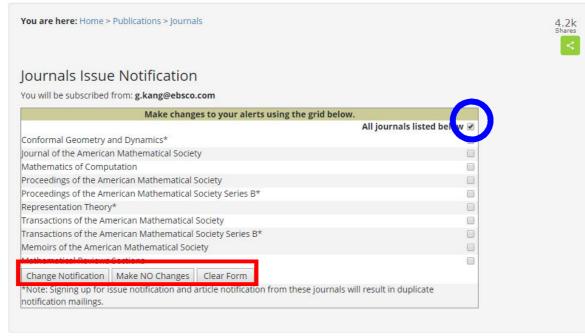
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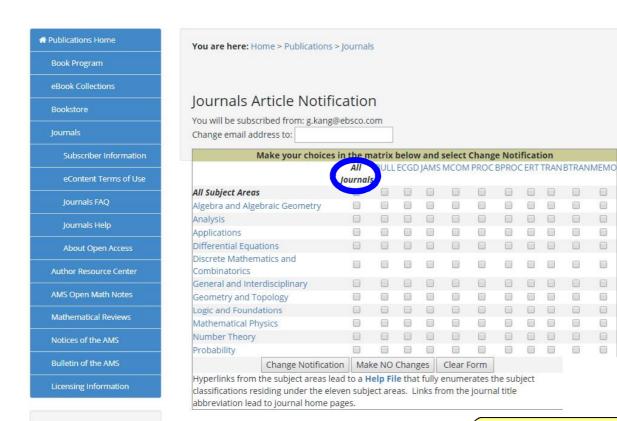
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