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21 April 2018

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Only the first word, the first word after a colon, and proper nouns should be capitalized.

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► HYBRIDIZABLE DISCONTINUOUS GALERKIN AND MIXED FINITE ELEMENT METHODS FOR ELLIPTIC PROBLEMS ON SURFACES



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NORM ESTIMATES FOR RESOLVENTS OF LINEAR OPERATORS IN A BANACH SPACE AND SPECTRAL VARIATIONS

Figure: Sample article

NORM ESTIMATES FOR RESOLVENTS OF LINEAR OPERATORS IN A BANACH SPACE AND SPECTRAL VARIATIONS

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Do not use et al. within the author line; that is, all author names must appear here.

There is a period after each initial in an abbreviated hyphenated name

There is a comma before and with three authors or more.



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x V.A. Sohinger



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- ✗ V.A. Sohinger
- ✓ V. A. Sohinger
- ✗ Author One, Author Two and Author Three

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✓ V. A. Sohinger

✗ Author One, Author Two and Author Three

✓ Author One, Author Two, and Author Three



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- **Abstract.** Matsusaka and Osanai [Proc. Amer. Math. Soc. 145 (2017), pp. 1383–1392] give arithmetic formulas for the coefficients of Hauptmoduln of higher levels as analogues of Kanekos formula for the j -invariant.
- **Abstract.** We study the velocity of travelling waves of a reaction-diffusion system and show that it grows like the square root of the diffusivity on the line. This generalizes a result of Berestycki, Roquejoffre, and Rossi [The influence of a line with fast diffusion on Fisher-KPP propagation, Princeton University Press, Princeton, NJ, 2014].
- **Abstract.** The main challenge of obtaining the differentiability of the semiflow is to determine the right type of differentiability and the right phase space (see V. Andreassen [Semiflows generated by Lipschitz perturbations of non-densely defined operators, Springer-Verlag, Berlin, 1989, pp. 14–151]).

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ABSTRACT. Given positive invertible operators A, B on a Hilbert space \mathcal{H} and $0 \leq \mu \leq 1$, we obtain some useful identities involving the means $A\nabla_{\mu}B$, $A\sharp_{\mu}B$ and $A!_{\mu}B$. We then prove that if $0 < A, B \leq \frac{1}{2}I$ then

$$A'\nabla_{\mu}B' - A'\sharp_{\mu}B' \leq A\nabla_{\mu}B - A\sharp_{\mu}B \quad (0.1)$$

where I is the identity operator on \mathcal{H} , $A' := I - A$, and $B' := I - B$.

Figure: Sample article

ABSTRACT. Given positive invertible operators A and B on a Hilbert space \mathcal{H} and $0 \leq \mu \leq 1$, we obtain some useful identities involving the means $A\nabla_{\mu}B$, $A\sharp_{\mu}B$, and $A!_{\mu}B$. We then prove that if $0 < A, B \leq \frac{1}{2}I$, then

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where I is the identity operator on \mathcal{H} , $A' := I - A$, and $B' := I - B$.

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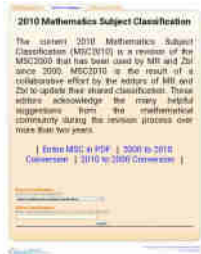


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The left running head contains the author name(s) and should appear as in the byline. If a shortened form is needed for the running head, change to initials for the first and middle names. If still too long, use only the first authors name followed by “et al.”; no comma precedes “et al.”.



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- ▶ Line dots (ldots) are used between variables with other punctuation.



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- ▶ Line dots (ldots) are used between variables with other punctuation.
- ▶ Centered dots (cdots) are used between operators and relations.



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a.a.	almost always
a.e.	almost everywhere
a.s.	almost surely
a priori	formed or conceived beforehand, presumed
cf.	compare (<i>confer</i> , never c.f.; not a substitute for "see")
e.g.	for example (<i>exempli gratia</i> ; not a substitute for "i.e.")
et al.	and others (<i>et alii</i> , <i>et alia</i>)
etc.	and so forth (<i>et cetera</i>)
ibid	in the same place (<i>ibidem</i>)
i.e.	that is (<i>id est</i> ; not a substitute for "e.g.")
iff	if and only if
loc. cit.	in the place cited (<i>loco citato</i>)
op. cit.	in the work cited (<i>opere citato</i> , but try to avoid this)
viz.	namely (<i>videlicet</i>)
w.r.t. or wrt	with respect to
w.l.o.g. or wlog	without loss of generality



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1. INTRODUCTION AND NOTATION

The GMRES [7] is one of most popular Krylov subspace methods for solving system. Another method is Quasi-Minimal Residual method (QMR) which has low storage rather than GMRES. For symmetric positive definite matrix A , Saad et al. [8] describe a deflated version of the CG algorithm. Also, Vuik et al. [9] applied deflated CG for the solution of a class of layered problems. For nonsymmetric systems Chapman and Saad [1] and Morgan [6, 3, 5] proposed augmentation of Krylov subspaces generated by restarted GMRES method.

Let $n \geq 2$ and $\mu_1, \mu_n \geq 0$ such that $\sum_{i=1}^n \mu_i = 1$. For arbitrary real numbers $x_1, \dots, x_n > 0$, we denote by A_n , G_n and H_n the arithmetic, geometric and harmonic means of x_1, \dots, x_n respectively. i.e.

$$A_n = \sum_{i=1}^n \mu_i x_i, \quad G_n = \prod_{i=1}^n x_i^{\mu_i}, \quad H_n = \frac{1}{\sum_{i=1}^n \mu_i \frac{1}{x_i}}. \quad (1.1)$$



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1. INTRODUCTION AND NOTATION

The GMRES [7] is one of the most popular Krylov subspace methods for solving system. Another method is Quasi-Minimal Residual method (QMR) which has low storage rather than GMRES. For symmetric positive definite matrix A , Saad et al. [8] described a deflated version of the CG algorithm. Also, Vulk, Segal, and Meijerink [9] applied deflated CG for the solution of a class of layered problems. For nonsymmetric systems Chapman and Saad [1] and Morgan [5, 4, 6] proposed augmentation of Krylov subspaces generated by restarted GMRES method.

Let $n \geq 2$, and let $\mu_1, \dots, \mu_n \geq 0$ be such that $\sum_{i=1}^n \mu_i = 1$. For arbitrary real numbers $x_1, \dots, x_n > 0$, we denote by A_n , G_n , and H_n the arithmetic, geometric, and harmonic means of x_1, \dots, x_n , respectively; that is,

$$A_n = \sum_{i=1}^n \mu_i x_i, \quad G_n = \prod_{i=1}^n x_i^{\mu_i}, \quad H_n = \frac{1}{\sum_{i=1}^n \mu_i \frac{1}{x_i}}. \quad (1.1)$$



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Let $P_{s+1}^T = [\epsilon_1, \epsilon_2, \dots, \epsilon_n]$ for $s \leq m$ denotes the permutation matrix obtain after s steps of the modified Hessenberg process; then $L_{s+1} = P_{s+1}L_{s+1}$ is a lower trapezoidal matrix. Since $PAU_k = 0$, PA is singular, hence it is important to analyse the possibilities of a break down.

Figure: Sample article

Let $P_{s+1}^T = [\epsilon_1, \epsilon_2, \dots, \epsilon_n]$ for $s \leq m$, denote the permutation matrix obtained after s steps of the modified Hessenberg process; then $L_{s+1} = P_{s+1}L_{s+1}$ is a lower trapezoidal matrix. Since $PAU_k = 0$, PA is singular, and hence it is important to analyze the possibilities of a break down.

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Hyphen

- ▶ Hyphenate words formed with the suffix “-type”.
a Newton-type method, a Cauchy–Schwarz-type equation
- ▶ Hyphenate words formed with prefixes before a proper noun.
non-Hermitian

When not to hyphenate.

- ▶ Do not hyphenate words formed with the prefixes “ante-”, “anti-”, “bi-”, “counter-”, “de-”, “equi-”, “extra-”, “infra-”, “inter-”, “intra-”, “macro-”, “micro-”, “mid-”, “mini-”, “multi-”, “non-”, “over-”, “pre-”, “post-”, “pro-”, “pseudo-”, “pre-”, “semi-”, “sub-”, “super-”, “supra-”, “trans-”, “tri-”, “ultra-”, “un-”, “under-”.
- ▶ Do not hyphenate words formed with the suffixes “-fold”, “-hood”, “-less”, “-wise”.
- ▶ Do not hyphenate “th” expressions: x^{th} , not $x\text{-th}$ or x^{th} .



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En Dash

- ▶ The en dash (–) is most commonly used to express a range of numbers.
equations (2.2)–(2.6), pp. 342–348
- ▶ Use an en dash between two author names joined in an adjectival construction.
the Smith–Jones formula, the Birch–Swinnerton-Dyer conjecture



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2. RESULTS

Theorem 2.1 ([3]). Suppose $A, B \in \mathfrak{B}(\mathcal{H})$ with $A \geq B$ and $A - B$ is compact operator. Then second equality (1.1) hold if and only if $A = B$ for $j = 1, 2, \dots$

Proof. Since $A - B$ is a non-negative operator, there exist constants $c_1, c_2 > 0$ such that $c_1 A \leq c_2 B$ and hence Tomita-Takesaki theory completes proof. \square

Figure: Sample article

2. RESULTS

Theorem 2.1 (see [3, p. 20]). Suppose that $A, B \in \mathfrak{B}(\mathcal{H})$ are such that $A \geq B$ and that $A - B$ is a compact operator. Then the second equality (1.1) holds if and only if $A = B$ for all $j = 1, 2, \dots$

Proof. Since $A - B$ is a non-negative operator, there exist constants $c_1, c_2 > 0$ such that $c_1 A \leq c_2 B$. Hence the Tomita-Takesaki theory completes the proof. \square

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The above identities will be frequently used in **the sequel**. A proper CQ^* -algebra can be obtained by completing of a C^* -algebra. Indeed, we have

Theorem 2.2. *Let (A, A_0) be a $*$ -semisimple Banach quasi $*$ -algebra with unit e . Then every element $a \in A$ is closable and the following statements are equivalent:*

(i) *The element a has a bounded inverse a^{-1} .*

(ii) *Both \bar{L}_a and \bar{R}_a possess everywhere defined (hence, bounded) inverses.*

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The above identities will be frequently used in what follows. A proper CQ^* -algebra can be obtained by completing of a C^* -algebra. Indeed, we have the following result.

Theorem 2.2. *Let (A, A_0) be a $*$ -semisimple Banach quasi $*$ -algebra with unit e . Then every element $a \in A$ is closable and the following statements are equivalent;*

- (i) *The element a has a bounded inverse a^{-1} .*
- (ii) *Both $\overline{L_a}$ and $\overline{R_a}$ possess everywhere defined (hence, bounded) inverses.*

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$$\begin{aligned}\Delta_{S^N} f_\varepsilon(\theta) &\leq \left(\frac{d^2}{d\theta^2} + (N-1) \cot \theta \frac{d}{d\theta} \right) \left(H\left(\frac{\theta}{\varepsilon}\right) \theta^{\frac{2-N}{p}} \right) & (2.1) \\ &= H\left(\frac{\theta}{\varepsilon}\right) \left(\left(\frac{2-N}{p} \right) \left(\frac{2-N-p}{p} \right) \theta^{\frac{2-N-2p}{p}} \right. & (2.2) \\ &\quad \left. + (N-1) \left(\frac{2-N}{p} \right) \theta^{\frac{2-N-p}{p}} \cot \theta \right) & (2.3) \\ &+ \frac{1}{\varepsilon} H'\left(\frac{\theta}{\varepsilon}\right) \left(\frac{2(2-N)}{p} \theta^{\frac{2-N-2}{p}} + (N-1) \theta^{\frac{2-N}{p}} \cot \theta \right) & (2.4)\end{aligned}$$

Now, applying [1] Theorem 3.2 and Theorem 2.1 and Theorem 2.2 imply the following Theorem which summarizes the results for positive operators, see e.g. [3, Thm. 2].

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$$\begin{aligned}\Delta_{g^N} f_\varepsilon(\theta) &\leq \left(\frac{d^2}{d\theta^2} + (N-1) \cot \theta \frac{d}{d\theta} \right) \left(H\left(\frac{\theta}{\varepsilon}\right) \theta^{\frac{2-N}{p}} \right) \\ &= H\left(\frac{\theta}{\varepsilon}\right) \left(\left(\frac{2-N}{p} \right) \left(\frac{2-N-p}{p} \right) \theta^{\frac{2-N-2p}{p}} \right. \\ &\quad \left. + (N-1) \left(\frac{2-N}{p} \right) \theta^{\frac{2-N-p}{p}} \cot \theta \right) \\ &\quad + \frac{1}{\varepsilon} H'\left(\frac{\theta}{\varepsilon}\right) \left(\frac{2(2-N)}{p} \theta^{\frac{2-N-2}{p}} + (N-1) \theta^{\frac{2-N}{p}} \cot \theta \right).\end{aligned}$$

Now, applying Theorem 4.2 of [1] and Theorems 2.1 and 2.2 implies the following theorem which summarizes the results for "positive" operators; see, for example, [3, Thm. 2].

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