

BULLETIN

(NEW SERIES)

of the

AMERICAN MATHEMATICAL SOCIETY



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VOLUME 47

NUMBER 2

APRIL 2010

$$(x_1 - a_1 x_n)^2 + (x_2 - a_2 x_n)^2 + \dots + (x_{n-1} - a_{n-1} x_n)^2 + \frac{x_n^2}{\Omega} \leq c_n \sqrt{\frac{1}{\Omega}}$$

dass also

$$\{x_n\} \leq c_n^{\frac{1}{2}} \cdot \sqrt[n]{\Omega^{n-1}}$$

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Subscription information. *Bulletin (New Series) of the American Mathematical Society* is published quarterly. The *Bulletin* is also accessible electronically, starting with the January 1992 issue, from www.ams.org/journals/. For paper delivery, subscription prices for Volume 47 (2010) are US\$457 list, US\$366 institutional member, US\$274 individual member, US\$411 corporate member. The subscription price for members is included in the annual dues. Subscription renewals are subject to late fees. See www.ams.org/customers/macsf-faq.html#journal for more information. Subscribers outside the United States and India must pay a postage surcharge of US\$8; subscribers in India must pay a postage surcharge of US\$15. Expedited delivery to destinations in North America is US\$12; elsewhere US\$41.

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Bulletin (New Series) of the American Mathematical Society (0273-0979) is published quarterly by the American Mathematical Society at 201 Charles Street, Providence, RI 02904-2294 USA. Periodicals postage is paid at Providence, Rhode Island, and additional mailing offices. POSTMASTER: Send address changes to *Bulletin*, American Mathematical Society, 201 Charles Street, Providence, RI 02904-2294 USA.

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Printed in the United States of America.

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10 9 8 7 6 5 4 3 2 1 15 14 13 12 11 10

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0273-0979(201004)47:2;1-R