

# COMPTES RENDUS

# MATHEMATIQUE

Editorial board: Académie des sciences, 23, quai de Conti, 75006 Paris, France  
Tel.: (+33) (0)1 44 41 43 69  
virginie.decosta@academie-sciences.fr  
<http://www.academie-sciences.fr>  
Editorial secretary: Virginie Decosta

**Objective of the journal:** the *Comptes rendus Mathématique* are open to all scientists, whatever their title or nationality. An article published in the *Comptes rendus* is the first report of an important discovery or a significant result. It benefits from a fast publication schedule once it has been definitively accepted, which makes it possible to establish priority.

**Editorial director:** Catherine Bréchnignac.

**Editors-in-chief:** Philippe G. Ciarlet, Jean-Michel Coron, Christophe Soulé.

**Editorial board:**

M. Atiyah, A. Bensoussan, J.-M. Bismut, E. Bombieri, J.-M. Bony, J. Bourgain, H. Brézis, G. Bricogne, L. Carleson, Y. Choquet-Bruhat, P. G. Ciarlet, A. Colmerauer, A. Connes, J.-M. Coron, P. Deheuvels, P. Deligne, J.-P. Demailly, S. Donaldson, D.L. Donoho, V. Drinfeld, M. Duflo, L. Faddeev, J.-M. Fontaine, É. Ghys, J.-Y. Girard, M. Gromov, A. Guionnet, H. Hironaka, G. Iooss, H. Jacquet, M. Kashiwara, S. Klainerman, M. Kontsevich, L. Lafforgue, G. Laumon, P. Lax, G. Lebeau, J.-F. Le Gall, P.-L. Lions, B. Malgrange, S. Mallat, Y. Manin, C.-M. Marle, Y. Meyer, B.C. Ngo, L. Nirenberg, J. Palis, G. Pisier, J.-P. Ramis, L. Saint-Raymond, J.-P. Serre, C. Soulé, M. Talagrand, L. Tartar, J. Tate, R. Temam, J. Tits, M. Vergne, C. Villani, C. Voisin, J.-L. Waldspurger, W. Werner, A. Wiles.

**Indexation:**

Current Contents, Science Citation Index, Inspec, Mathematical Reviews, Pascal, Scopus, Zentralblatt für Mathematik.

Front cover picture: Fenêtre, 1976, detail, Éric Hallberg ©, born in 1933.

---

© 2018 Académie des sciences. All rights reserved.

Published by Elsevier Masson SAS, Société par actions simplifiée à associé unique, au capital de 47 275 384 € - RCS Nanterre 542 037 031

Office: 62, rue Camille-Desmoulins, 92442 Issy-les-Moulineaux cedex, France.

Shareholder: Elsevier Holding France

**Publication information** – *Comptes rendus Mathématique* (ISSN 1631-073X). For 2018, volume 356 (12 issues) is scheduled for publication. From 2016 all subscription is electronic only, prices are available upon request from the Publisher or from the Regional Sales Office nearest you or from this journal's website (<http://www.elsevier.com/locate/issn/1631-073X>). Further information is available on this journal and other Elsevier products through Elsevier's website (<http://www.elsevier.com>). Subscriptions are accepted on a prepaid basis only and are entered on a calendar year basis.

**Desk Editor** – Jean-Michel Blengino: Tel.: (+33) (0)1 71 16 54 90 – Fax: (+33) (0)1 71 16 51 84. E-mail: [j.blengino@elsevier.com](mailto:j.blengino@elsevier.com)

**Subscriptions** – Tel.: (+33) (0)1 71 16 55 99 – Fax: (+33) (0)1 71 16 55 88. E-mail: [infos@elsevier-masson.fr](mailto:infos@elsevier-masson.fr)

**President** – Daniel Rodriguez

**Publisher** – Giovanni Raneri

**Author enquiries**

For enquiries relating to the submission of articles (including electronic submission) please visit this journal's homepage at <http://www.elsevier.com/locate/issn/1631-073X>. For detailed instructions on the preparation of electronic artwork, please visit <http://www.elsevier.com/artworkinstructions>. Contact details for questions arising after acceptance of an article, especially those relating to proofs, will be provided by the publisher. You can track accepted articles at <http://www.elsevier.com/trackarticle>. You can also check our Author FAQs at <http://www.elsevier.com/authorFAQ> and/or contact Customer Support via <http://support.elsevier.com>.

---

Imprimé en France par JOUVE  
1, rue du D<sup>l</sup>-Sauvé, 53101 Mayenne, France  
Dépôt légal à parution

Commission paritaire : 0612 T 81865  
12 fascicules, numbered 1–12