

Books & Videos

Mirror Symmetry. Authors: Kentaro Hori, Sheldon Katz, Albrecht Klemm, Rahul Pandharipande, Richard Thomas, Ravi Vakil. Editors: Cumrun Vafa, Eric Zaslow. CMI/AMS publication, 929 pp., Hardcover. ISBN 0-8218-2955-6. List: \$125. AMS Members: \$99. CMIM/I. To order, visit: www.ams.org/bookstore.

“This book, the product of the collective efforts of the lecturers at the school organized by the Clay Mathematics Institute, is a valuable contribution to the continuing intensive collaboration of physicists and mathematicians. It will be of great value to young and mature researchers in both communities interested in this fascinating modern grand unification project.” – *Yuri Manin, Max Planck Institute for Mathematics, Bonn, Germany*

“The book is an excellent starting point for learning the subject. [It] provides an extensive background for both mathematicians and physicists. It is also the most up-to-date book on the subject, covering recent developments like the Gopakumar–Vafa invariants and geometric transitions.” *from Marcos Marino’s review of the book in MathSciNet.*

Strings 2001. Authors: Atish Dabholkar, Sunil Mukhi, Spenta R. Wadia. Tata Institute of Fundamental Research. Editor: American Mathematical Society (AMS), 2002, 489 pp., Paperback, ISBN 0-8218-2981-5, List \$74., AMS members: \$59. Order code: CMIP/1. To order, visit: www.ams.org/bookstore.

This book summarizes recent results in string theory from the perspective of world renowned experts, including Michael Green, David Gross, Stephen Hawking, John Schwarz, Edward Witten and others. Individual articles discuss D-branes, black holes, string dualities, compactifications. Calabi-Yau manifolds, conformal field theory, noncommutative field theory, string field theory, and string phenomenology.

Global Theory of Minimal Surfaces. Proceedings of the 2001 CMI Summer School at MSRI. Editor: David Hoffman. Forthcoming joint CMI/AMS publication. 800 pp., Hardcover. Available in late 2004. Available soon at: www.ams.org/bookstore.

Strings and Geometry. Proceedings of the 2002 CMI Summer School held at the Isaac Newton Institute for Mathematical Sciences. Authors: Paul Aspinwall, Tom Bridgeland, Alastair Craw, Robert Henricus Dijkgraaf, Michael Douglas, Mark Gross, Nigel Hitchin, Anton Kapustin, Gregory Moore, Miles Reid, Richard Thomas, Pelham Wilson. Forthcoming joint CMI/AMS publication. Available soon at: www.ams.org/bookstore.

The CMI Millennium Meeting Collection. Authors: Michael Atiyah, Timothy Gowers, John Tate, François Tisseyre. Editors: Tom Apostol, Jean-Pierre Bourguignon, Michele Emmer, Hans-Christian Hege, Konrad Polthier. Springer VideoMATH, © Clay Mathematics Institute, 2002. Box set consists of four video cassettes: *The CMI Millennium Meeting*, a film by François Tisseyre; *The Importance of Mathematics*, a lecture by Timothy Gowers; *The Millennium Prize Problems*, a lecture by Michael Atiyah; and *The Millennium Prize Problems*, a lecture by John Tate. VHS/NTSC or PAL. ISBN 3-540-92657-7, List: \$119, EUR 104.95. To order, visit: www.springer-ny.com (in the United States) or www.springer.de (in Europe).

These videos document the Institute’s Paris meeting at the Collège de France where CMI announced the Millennium Prize Problems. For anyone who wants to learn more about these seven grand challenges.

