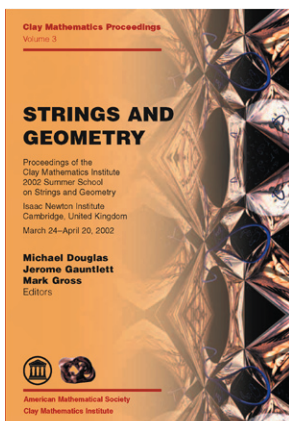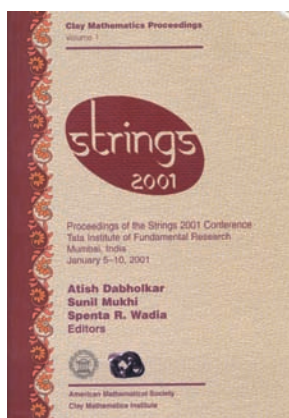# Books & Videos

Strings and Geometry. Proceedings of the 2002 CMI Summer School held at the Isaac Newton Institute for Mathematical Sciences. Editors: Michael Douglas, Jerome Gauntlett and Mark Gross. CMI/AMS publication, 376 pp., Paperback, ISBN 0-8218-3715-X. List: $69. AMS Member: $55. Order code: CMIP/3. To order, visit: www.ams.org/bookstore.

This volume contains a selection of expository and research articles by lecturers at the school and highlights some of the current interests of researchers working at the interface between string theory and algebraic geometry. The topics covered include manifolds of special holonomy, supergravity, supersymmetry, D-branes, the McKay correspondence and the Fourier-Mukai transform.

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: $124. AMS Members: $99. CMIM/1. To order, visit: www.ams.org/bookstore.

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.

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 by September 2005 at www.ams.org/bookstore.

Harmonic Analysis, the Trace Formula and Shimura Varieties; Proceedings of the 2003 CMI Summer School at Fields Institute, Toronto. Editors: James Arthur, David Ellwood, and Robert Kottwitz. Available in fall 2005 at www.ams.org/bookstore.

Floer Homology, Gauge Theory, and Low-Dimensional Topology; Proceedings of the 2004 CMI Summer School at Rényi Institute of Mathematics, Budapest. Organizers of the school: David Ellwood, Peter Ozsváth, András Stipsicz, and Zoltán Szábo, Available in fall 2005 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 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 in mathematics.