



MEGA is the acronym for Effective Methods in Algebraic Geometry (and its equivalent in Italian, French, Spanish, German, Russian, etc.), a series of roughly biennial conferences on computational and application aspects of Algebraic Geometry and related topics with very high standards. Previous meetings were held in 1990 (Castiglione, Italy), 1992 (Nice, France), 1994 (Santander, Spain), 1996 (Eindhoven, Netherlands), 1998 (St. Malo, France), 2000 (Bath, United Kingdom), 2003 (Kaiserslautern, Germany), 2005 (Porto Conte, Italy), 2007 (Strobl, Austria), and 2009 (Barcelona, Spain). As in previous conferences, we plan to publish selected papers from the conference in a special issue of the *Journal of Symbolic Computation*.

**Terms of submission:** submissions should contain recent original research relevant to the topics of the conference, under the form of an extended abstract. The extended abstracts should be at least four pages long (plus bibliography) and should contain detailed results, an outline of the proofs and all of the main ideas. Submitted contributions to this conference or related material could be submitted to another conference or journal. Material not submitted simultaneously elsewhere might be given priority. Acceptance of a submitted contribution means acceptance for oral presentation only. A call for papers for the conference proceedings will be announced during (and after) the conference. There is also a call for software presentations. Software demonstrations are meant to show new software systems, packages, libraries which are of interest to the topic of the conference. Please, also submit an extended abstract.

Conference topics will cover: effective methods and theoretical and practical complexity issues in: commutative algebra, geometry, real geometry, algebraic number theory, algebraic geometry, arithmetic geometry and related fields (algebraic analysis of differential equations, differential geometry, associative algebras, group theory, algebraic groups and Lie algebras, algebraic and differential topology, as well as applications in these fields).

Proceedings containing a selection of the papers and invited talks presented at previous MEGA conferences have been published by Birkhäuser in the series *Progress in Mathematics*, by the *Journal of Pure and Applied Algebra*, and the three last editions by the *Journal of Symbolic Computation*.

## RESEARCH CONFERENCES

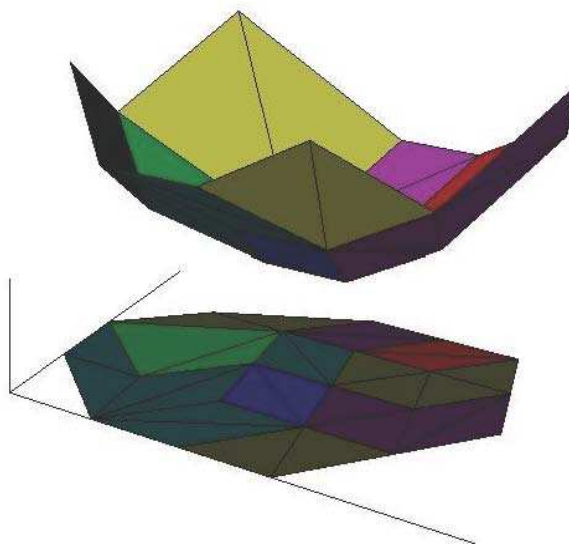
ESF Mathematics Conference in partnership with EMS and ERCOM/IML

# MEGA 2011: Effective Methods in Algebraic Geometry

Stockholm University, Sweden

30 May - 3 June 2011

Chairs: **Sandra di Rocco**, KTH Stockholm, SE  
& **Mikael Passare**, Stockholm University, SE



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### Invited Speakers will provisionally include:

**Johannes Buchmann** - Technische Universität Darmstadt, DE; **Guy Casale** - Rennes 1 University, FR; **Anne Frühbis-Krüger** - University of Hannover, DE; **Anton Leykin** - Georgia Tech, US; **Monique Laurent** - Centrum Wiskunde & Informatica, NL; **Diane Maclagan** - Warwick Mathematics Institute, UK; **Pablo Parrilo** - MIT, US; **Kristian Ranestad** - University of Oslo, NO; **Duco van Straten** - University of Mainz, DE

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**Closing date for applications: 16 March 2011**

**Closing date for paper submissions: 8 February 2011**

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