

REAL AND TROPICAL ALGEBRAIC GEOMETRY

From January 1st to June 30th, 2008

Centre Interfacultaire Bernoulli, EPFL, Lausanne

Organizers

Ilia Itenberg (Université Louis Pasteur, Strasbourg), Viatcheslav Kharlamov (Université Louis Pasteur, Strasbourg),
Boris Shapiro (University of Stockholm), Frank Sottile (Texas A & M University)

The programme will consist of short courses and regular seminars, punctuated by three workshops and a final conference.

<http://bernoulli.epfl.ch/tropical>

Workshops & Conferences

“Introductory Workshop”
January 21st to 26th, 2008

Workshop
“Tropical and Symplectic Aspects of Real Geometry”
March 10th to 15th, 2008

Workshop
“Enumeration and Bounds in Real Algebraic Geometry”
April 21st to 26th, 2008

Conference
“Real and Tropical Geometry”
June 16th to 21st, 2008

Lectures & Courses

February: J.-Y. Welschinger (ENS, Lyon)
"Lower bounds, sharpness in real algebraic geometry"

March – April: S. Orevkov (Université Paul Sabatier, Toulouse)
"Representations of braid groups and their subgroups,
and applications to real algebraic curves"

March – April: E. Shustin (Tel Aviv University)
"Enumeration of real rational curves on Del Pezzo surfaces"

April – May: A. Degtyarev (Bilkent University, Ankara)
"Topology of real algebraic varieties"

May – June : A. Varchenko (University of North Carolina, Chapel Hill)
"The B. and M. Shapiro conjecture in real algebraic geometry
and the Bethe ansatz"