



RESEARCH CONFERENCES

ESF Mathematics Conference in Partnership with
EMS and ERCOM

Teichmüller Theory and its Interactions in Mathematics and Physics

Centre de Recerca Matemàtica, Bellaterra ▪ Spain
28 June - 3 July 2010

Chairs:

- **Shigeyuki Morita**, University of Tokyo, JP
- **Athanasios Papadopoulos**, Strasbourg University, FR
- **Robert C. Penner**, University of Aarhus, DK & USC, US

This ESF-EMS-ERCOM Conference aims to highlight some of the most important advances in Teichmüller theory. This theory will be considered both from the geometric point of view (Thurston's theory and its ramifications) and from the analytic point of view (the Ahlfors-Bers theory and its ramifications). The relation with physics will also be emphasized.

Conference topics will include:

- Weil-Petersson geometry and other metric structures;
- mapping class groups and their representation theory;
- rigidity theory;
- infinite-dimensional Teichmüller spaces;
- relations with dynamical systems;
- relations with number theory and probability theory;
- invariants of 3- and 4-manifolds;
- moduli spaces of flat connections;
- cluster algebras and quantization.

In addition to specialized talks, there will be several survey talks given by leading experts in the field. Young researchers are particularly encouraged to participate, and graduate students in the field are also welcome.

With support from



Center for the Topology and Quantization
of Moduli spaces (CTQM)



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Invited Speakers will include

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| Norbert A'Campo - U. Basel, CH | François Labourie - U. Paris-Sud, FR |
| Jørgen E. Andersen - Aarhus U., DK | Vladimir Markovic - Warwick U., UK |
| Benson Farb - Chicago U., US | Curtis McMullen - Harvard U., US |
| Vladimir Fock - Strasbourg U., FR | Gabriele Mondello - U. di Roma "La Sapienza", IT |
| Sergey Fomin - Michigan U., US | Jean-Pierre Otal - IMT Toulouse, FR |
| Bill Goldman - Maryland U., US | Jean-Marc Schlenker - IMT Toulouse, FR |
| Alexander Goncharov - Brown U., US | Nathalie Wahl - Copenhagen U., DK |
| Ursula Hamenstaedt - U. Bonn, DE | Anna Wienhard - Princeton U., US |
| Dieter Kotschick - U. München, DE | Scott Wolpert - Maryland U., US |
| K. Krasnov - Nottingham U., UK | Andrei Zelevinsky - Northeastern U., US |

Application form & programme available from

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Closing date for applications 5 April 2010

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