

## Summer School GEOQUANT 2015

ICMAT, Madrid, Spain

September 7-11, 2015

The school constitute the first week of the biannual activity GEOQUANT, which will take place this year from September 7 - 18, 2015 at the ICMAT in Madrid, Spain. The school mainly addresses students, post-docs and other researchers who are interested in entering the field of Geometry and Quantization. For more information about the topics of the full activity see the webpage <http://www.icmat.es/congresos/2015/GEOQUANT>.

### Lectures

- Mario Garcia-Fernandez (ICMAT, Madrid): *An introduction to the Strominger System of partial differential equations*
- Jochen Heinloth (University Duisburg-Essen): *Geometry of moduli spaces of Higgs bundles on curves*
- Semyon Klevtsov (University of Cologne): *Quantum Hall, Bergman kernel and Kähler metrics*
- Tomoki Nakanishi (Nagoya University, Japan): *Cluster algebras and applications.*

Each of these courses are planned for 5 hours. In addition to them we will allow short presentations (e.g. posters, talks by the participants). Also regular discussion sessions are foreseen. Abstracts of the Lectures can be found on the above webpage.

**Financial Support:** We plan to accommodate the young participants on the campus of ICMAT. We will have a limited amount of funds for young researchers attending the school and maybe the follow-up conference (i.e. free accommodation on campus). In case that you want to participate please register for the activity on the above mentioned webpage. In case you want to apply for support, please supply the following information as soon as possible but before 22.7.2015 to [geoquant@uni.lu](mailto:geoquant@uni.lu):

(1) name, (2) affiliation, (3) email, (4) your scientific level (PhD student, postdoc, professor, ...), (5) a short statement why you are interested in the school, (6) if you are a young researcher, please supply the title of your PhD thesis, in case that you are still a PhD student a short statement of your supervisor might be helpful too, (7) whether you are interested also in participation in the follow-up conference, (8) whether you will need support (free accommodation, very limited support for travel).

**Sponsors:** ICMAT Madrid, Spain; University of Luxembourg, Mathematics Research Unit; Foundation Compositio Mathematica; EU COST Action QSPACE.

**Scientific Organization Committee:** Martin Schlichenmaier (Luxembourg University, Luxembourg) (**main contact**), Dorothea Bahns (Goettingen, Germany), Pierre Bieliavsky (Louvain la Neuve, Belgium), Oscar Garcia-Prada (ICMAT, Madrid, Spain), Ryoichi Kobayashi (Nagoya University, Japan), Manuel de Leon (ICMAT, Madrid, Spain), Peter Schupp (JUB, Bremen, Germany), Armen Sergeev (Steklov Mathematical Institute, Moscow, Russia), Oleg Sheinman (Steklov Mathematical Institute, Moscow, Russia), Weiping Zhang (Chern Institute of Mathematics, Tianjin, P.R.China).