

スーパーグローバル幾何学特別講演
*大学院生向け

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VENUE:

127 Conference Room, Faculty of Science Bldg. #3, Kyoto University

Thu
Feb. 16
2017

10:00 - 12:00

Moduli Space Techniques in RNA and Protein Folding

We will report on how various techniques from the study of moduli spaces in mathematics and quantum field theories in physics can be put to good use towards our understanding of how RNA and proteins fold.

Fri
Feb. 17
2017

10:00 - 12:00
14:00 - 15:00

Geometric Quantisation of Moduli Spaces and Relations to TQFT

In this talk we will cover the basics of quantization of moduli spaces of bundles over Riemann Surfaces. This will include both moduli spaces for compact Lie groups and also for non compact ones, which can also be thought of as moduli spaces of Higgs bundles. In particular we will discuss quantisation with respect to both complex and real polarisations, the old and new Verlinde formulae and construct Hitchin-Witten connections so as to obtain quantum representation of mapping class groups and further their relations to conformal field theory and TQFT.



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