Program: PhD Retreat 28 July-15 August 2014 – WEEK 1-2

Monday 28 July in Aud. D3 (1531-215)

09:30 - 10:00   Coffee/tea

10:00 - 10:45   **Dmitry Lebedev** (ITEP, Russia & Moscow Independent University, Russia)

Baxter operators, Hecke algebras and L-factors (1/2)

11:15 - 12:00   **Dmitry Lebedev** (ITEP, Russia & Moscow Independent University, Russia)

Baxter operators, Hecke algebras and L-factors (2/2)

12:00 - 14:00   Lunch

14:45 - 15:15   Coffee in the QGM Lounge

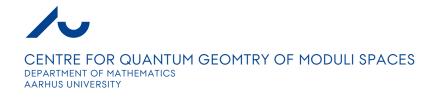18:00   Social dinner in the courtyard (free of charge)

Tuesday 29 July in Aud. D3 (1531-215)

09:30 - 10:00   Coffee/tea

10:00 - 10:45   **Maxim Kontsevich** (IHÉS) (1/3)

Exponential integrals

11:15 - 12:00   **Jørgen Ellegaard Andersen** (Aarhus University) (1/3)

The Hitchin connection for both for compact and non-compact gauge groups and applications to TQFT

12:00 - 14:00   Lunch

14:45 - 15:15   Coffee in the QGM lounge

Wednesday 30 July in Aud. D3 (1531-215)

09:30 - 10:00   Coffee/tea

10:00 - 10:45   *Discussion*

11:15 - 12:00   *Discussion*

12:00 - 14:00   Lunch

14:45 - 15:15   Coffee outside the auditorium D3

15:15-16:15   **Seminar by David Rose (University of Southern California) Aud. D3**

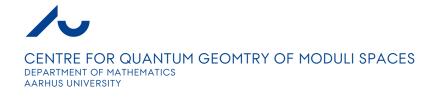*From the Jones polynomial to Khovanov-Rozansky homology via skew Howe duality*

Thursday 31 July in Aud. D3 (1531-215)

09:30 - 10:00   Coffee/tea

10:00 - 10:45   **Maxim Kontsevich** (IHÉS) (2/3)

                Exponential integrals

11:15 - 12:00   **Maxim Kontsevich** (IHÉS) (3/3)

                Exponential integrals

12:00 - 14:00   Lunch

14:45 - 15:15   Coffee in the QGM lounge

Friday 1 August in Aud. D3 (1531-215)

09:30 - 10:00   Coffee/tea

10:00 - 10:45   **Jørgen Ellegaard Andersen** (Aarhus University) (2/3)

                The Hitchin connection for both for compact and non-compact gauge groups and applications to TQFT

11:15 - 12:00   **Jørgen Ellegaard Andersen** (Aarhus University) (3/3)

                The Hitchin connection for both for compact and non-compact gauge groups and applications to TQFT

12:00 - 14:00   Lunch

14:15 - 15:15   **Seminar by Peter Samuelson (University of Toronto)**

                Quantizations of character varieties and double affine Hecke algebras

15:15 - 15:45   Coffee outside the auditorium

Monday 4 August in Aud. D3 (1531-215)

09:30 - 10:00   Coffee/tea

10:00 - 10:45   **Rinat Kashaev** (University of Geneva) (1/5)

Lectures on Teichmüller TQFT - Review of quantum Teichmüller theory

11:15 - 12:00   **Shamil Shakirov** (UC Berkeley) Seminar

12:00 - 14:00   Lunch

14:15 – 15:15   **Rinat Kashaev** (University of Geneva) (2/5)

Lectures on Teichmüller TQFT - Symmetries of the diagonal flip operator

14:45 - 15:15   Coffee in the QGM lounge
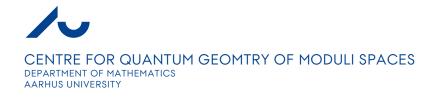

Tuesday 5 August in Aud. D3 (1531-215)

09:30 - 10:00   Coffee/tea

10:00 - 10:45   **Nicolai Reshetikhin** (UC Berkeley) (1/5)

Quantization of gauge systems and the BV formalism

11:15 - 12:00   **Nicolai Reshetikhin** (UC Berkeley) (2/5)

Quantization of gauge systems and the BV formalism

12:00 - 14:00   Lunch

14:45 - 15:15   Coffee in the QGM lounge

Wednesday 6 August in Aud. D3 (1531-215)

09:30 - 10:00   Coffee/tea

10:00 - 10:45   **Nicolai Reshetikhin** (UC Berkeley) (3/5)

Quantization of gauge systems and the BV formalism

11:15 - 12:00   **Rinat Kashaev** (University of Geneva) (3/5)

Lectures on Teichmüller TQFT - Invariants of triangulated 3-manifolds with weighted graphs

12:00 - 14:00   Lunch

14:45 - 15:15   Coffee in the QGM lounge

Thursday 7 August in Aud. D3 (1531-215)

09:30 - 10:00   Coffee/tea

10:00 - 10:45   **Nicolai Reshetikhin** (UC Berkeley) (4/5)

Quantization of gauge systems and the BV formalism

11:15 - 12:00   **Rinat Kashaev** (University of Geneva) (4/5)

Lectures on Teichmüller TQFT - Examples of calculation

12:00 - 14:00   Lunch

14:45 - 15:15   Coffee in the QGM lounge

Friday 8 August in Aud. D3 (1531-215)

09:30 - 10:00   Coffee/tea

10:00 - 10:45   **Nicolai Reshetikhin** (UC Berkeley) (5/5)

Quantization of gauge systems and the BV formalism

11:15 - 12:00   **Rinat Kashaev** (University of Geneva) (5/5)

Lectures on Teichmüller TQFT - A version of the volume conjecture

12:00 - 14:00   Lunch

15:15 - 15:45   Coffee in the QGM lounge