



Retreat for QGM and GEOMAPS PhD students

29 May-15 June 2012

Tuesday 29 May

Location: INANO 318 (1521-318) only presentations

10.00 – 10.30 Coffee/tea and bread rolls in the QGM Lounge (1530-326)

10.30 – 11.00 Registration by Jane (office 1530-321)

11.15 - 12.00 **Shamil Shakirov** (Berkeley): *Refined Chern-Simons theory and torus knots*

12.00 - 14.00 Lunch in the Mathematics canteen

14.00 – 14.45 **Gus Schrader** (Berkeley): *TBA*

16.00 – 16.30 Coffee/tea and cake in the QGM Lounge together with the MATH PhD Cake Club

18.00 - Social event (Pizza and discussion) in the QGM Lounge (1530-326)

Wednesday 30 May

Location INANO 322 (1521-322) only presentations

09.30 – 10.00 Coffee/tea and bread rolls in the QGM Lounge (1530-326)

10.00 – 10.45 **Arash Momeni** (Clausthal): *Mayer's transfer operator approach to quantum chaos and Faddeev's approach to spectral theory of automorphic functions*

11.15 - 12.00 **Jakob Blaavand** (Oxford): *Nahm transform of Higgs bundles (I)*

12.00 - 14.15 Lunch in the Mathematics canteen

14.00 – 14.45 **Jakob Blaavand** (Oxford): *Nahm transform of Higgs bundles (II)*

14.45 – 15.15 Coffee/tea and cake in the QGM Lounge (1530-326)

Thursday 31 May

Location: Koll. D. (1531-211) only presentations

09.30 – 10.00 Coffee/tea and bread rolls in the QGM Lounge (1530-326)

11.15 - 12.15 **Prof. Jonathan Weitsman** (Northeastern Uni): *Equivariant Morse Theory, Old and New (lecture I)*

12.15 - 14.15 Lunch

14.15 – 15.15 **Prof. Jonathan Weitsman** (Northeastern Uni) : *Equivariant Morse Theory, Old and New (lecture II)*

15.15 – 15.45 Coffee/tea and cake in the QGM Lounge (1530-326)

18.00 - Cheese and wine in the QGM Lounge

Friday 1 June

Location: Koll. D. (1531-211) only presentation

09.30 – 10.00 Coffee/tea and bread rolls in the QGM Lounge (1530-326)

11.15 - 12.15 **Prof. Jonathan Weitsman** (Northeastern Uni): *Equivariant Morse Theory, Old and New (lecture III)*

12.15 - 14.15 Lunch

15.15 – 15.45 Coffee/tea and cake in the QGM Lounge (1530-326)



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29 May-15 June 2012

Monday 4 June

Location: D-03 (1531-019) (all day)

- 09.30 – 10.00 Coffee/tea and bread rolls in the QGM Lounge (1530-326)
- 10.00 – 10.45 **Harrold Williams** (Berkeley): *Introduction to double Bruhat cells and cluster algebras (I)*
- 12.00 – 14.00 Lunch
- 14.00 – 14.45 **Harrold Williams** (Berkeley): *Introduction to double Bruhat cells and cluster algebras (II)*
- 14.45 – 15.15 Coffee/tea and cake in the QGM Lounge (1530-326)

Tuesday 5 June (Danish holiday – canteen is closed!)

Location: Aud. D3 (1531-215) (all day)

- 09.30 – 10.00 Coffee/tea in QGM Lounge (1530-326)
- 11.00 – 12.00 **Prof. Vladimir Fock** (Strasbourg): *Integrable systems, dimers and affine Lie groups* (lecture I)
- 12.00 – 14.00 Lunch
- 14.00 – 15.00 **Prof. Vladimir Fock** (Strasbourg): *Integrable systems, dimers and affine Lie groups* (lecture II)
- 16.00 – 16.30 Coffee/tea and cake in the QGM Lounge together with the MATH PhD Cake Club

Wednesday 6 June

Location: D-03 (1531-019) (all day)

- 09.30 – 10.00 Coffee/tea and bread rolls in the QGM Lounge (1530-326)
- 10.00 – 10.45 **Eddie Nijholt** (Amsterdam) : *Basics of the symmetric group*
- 11.00 – 12.00 **Prof. Vladimir Fock** (Strasbourg): *Integrable systems, dimers and affine Lie groups* (lecture III)
- 12.00 – 14.00 Lunch
- 14.00 – 15.00 **Prof. Vladimir Fock** (Strasbourg): *Integrable systems, dimers and affine Lie groups* (lecture IV)
- 15.00 – 15.30 Coffee/tea and cake in the QGM Lounge (1530-326)

Thursday 7 June

Location: D-03 (1531-019) (all day)

- 09.30 – 10.00 Coffee/tea and bread rolls in the QGM Lounge (1530-326)
- 11.00 – 12.00 **Prof. Vladimir Fock** (Strasbourg): *Integrable systems, dimers and affine Lie groups* (lecture V)
- 12.00 – 14.00 Lunch
- 14.00 – 15.00 **Prof. Vladimir Fock** (Strasbourg): *Integrable systems, dimers and affine Lie groups* (lecture VI)
- 15.00 – 15.30 Coffee/tea and cake in the QGM Lounge (1530-326)

Friday 8 June

Location: D-03 (1531-019) (all day)

- 09.30 – 10.00 Coffee/tea and bread rolls in the QGM Lounge (1530-326)
- 10.00 – 10.45 **Alexander Shapiro** (Berkeley): *Rational representations of Yangian $Y(gl_n)$*
- 11.15 – 12.00 **Shehryar Sikander** (QGM): *Moduli of bundles and Hitchin system*
- 12.00 – 14.00 Lunch
- 14.00 – 14.45 **Anton Quelle** (Amsterdam): *Gravitational waves*
- 16.00 – 18.00 Summer celebration at Science and Technology
- 18.30 – QGM Summer Celebration at Restaurant Sechzehn (Früd), Toldbodgade 6, 8000 Aarhus C



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Monday 11 June

Location: D-03 (1531-019) (all day)

09.30 – 10.00 Coffee/tea and bread rolls in the QGM Lounge (1530-326)

10.00 – 10.45 **Jens-Jakob Kratmann Nissen** (QGM): *The Andersen-Kashaev TQFT*

12.00 - 14.00 Lunch

14.00 – 15.00 **Paolo Masulli** (QGM): *Formulas of star products*

15.00 – 15.30 Coffee/tea and cake in the QGM Lounge (1530-326)

Tuesday 12 June

Location: INANO 318 (1521-318) 10.00-11.00 & D-01 (1531-011) 13.00-16.00

09.30 – 10.00 Coffee/tea and bread rolls in the QGM Lounge (1530-326)

10.00 – 10.45 **Troels Bak Andersen** (QGM): *Deformed representations of quantum groups*

12.00 - 14.00 Lunch

16.00 - 16.30 Coffee/tea and cake in the QGM Lounge together with the MATH PhD Cake Club

Wednesday 13 June

Location: D-03 (1531-019) (all day)

09.30 – 10.00 Coffee/tea and bread rolls in the QGM Lounge (1530-326)

11.15 – 12.15 **Dmitry Lebedev** (Laboratoire J.-V. Poncelet): *Whittaker function and beyond (Introductory lecture I)*

12.00 - 14.00 Lunch

14.15 – 15.15 **Dmitry Lebedev** (Lab. J.-V. Poncelet): *Whittaker function and beyond (Introductory lecture II)*

15.15 – 15.30 Coffee/tea and cake in the QGM Lounge (1530-326)

Thursday 14 June

Location: INANO 318 (1521-318) only presentations

09.30 – 10.00 Coffee/tea and bread rolls in the QGM Lounge (1530-326)

10.00 – 10.45 **Amit De** (QGM): *TBA*

12.00 - 14.00 Lunch

14.00 – 14.45 **Tobias Kildetoft** (QGM): *Decomposing tensor products of gl_n and sl_n modules*

14.45 – 15.15 Coffee/tea and cake in the QGM Lounge (1530-326)

18.00 Cheese and wine in the QGM Lounge

Friday 15 June

Location: INANO 318 (1521-318) only presentations

09.30 – 10.00 Coffee/tea and bread rolls in the QGM Lounge (1530-326)

10.00 – 10.45 **Dennis Hasselstrøm Pedersen** (QGM): *Something about quantum groups*

12.00 - 14.00 Lunch

14.15 - 15.15 **Dmitry Lebedev** (Laboratoire J.-V. Poncelet): *Whittaker function and beyond (lecture III)*

15.15 – 15.45 Coffee/tea and cake in the QGM Lounge (1530-326)