



# The Daily Group Theorist

No. 5

MATHS PUNS ARE THE FIRST SINE OF MADNESS Thursday 8<sup>th</sup> August 2013

## Welcome to day 5

By now you should know which rooms are which and so to confuse you again we will add another location — Upper College Hall for our musical evening.

## Today's Talks

### Day outline

9.30 Reid 3; 10.30 Coffee; 11.00 Contributed talks; 12.30 Lunch; 1.30 Robinson; 2.30 Breuillard 3; 3.30 Tea; 4.00 Liebeck 3; 6.00 Dinner; 8.00 Musical evening (Upper College Hall)

### Contributed talks

11.00 – 12.30, Maths Lecture Theatre B

Chair: Rosemary Bailey

Bernardo Rodrigues, *Some designs and binary codes preserved by the simple group Ru of Rudvalis*

Ben Fairbairn, *A model of computer memory*

Mark Ioppolo, *Neighbour-transitive codes in Johnson graphs*

11.00 – 12.30, Maths Lecture Theatre C

Chair: Dane Flannery

Alla Detinko, *Recent advances in computing with infinite linear groups*

Allen Herman, *Schur indices in GAP*

Delaram Kahrobaei, *Public key exchange using semidirect product of groups*

11.00 – 12.30, Maths Lecture Theatre D

Chair: Derek Robinson

Ben Martin, *Algebraic groups and completely reducibility*

Adam Thomas, *G-reducible subgroups of the exceptional groups*

Stephen Glasby, *Tensor decomposition, Jordan canonical forms, and Clebsch-Gordon coefficients*

## Updates to the week's schedule

There are no further changes, apart from the ones previously advertised: Daria Lytkina will speak at 11:30 on Friday 9<sup>th</sup> in Maths B under the title *On groups with given spectrum*.

## Lists, Slides and Privacy

PDFs of all speakers' slides will be put on the conference web pages (at a URL to be announced), unless a speaker objects. Please inform the organisers (by the end of today) if you would like your slides **not** to be made available this way.

## Festivities - Musical evening

Tonight there will be a musical evening taking place in Upper College Hall, upstairs from the whisky tasting venue (building 44 on university map). If you still think you will get lost on the three streets of St Andrews, there will be a walking party leaving at 7.30pm from Blackadder Hall.

Musical performances will start at 8pm. All are welcome to show off their unique talents, although it would be helpful to notify Tara Brough (tara@mcs.st-andrews.ac.uk) if you have not already done so. The hall will be available from 7pm for anyone who wants a warm-up or sound-check.

To enhance your Scottish experience there will be a Scottish Country dance demonstration at around 9.25pm followed by Scottish and English country dancing (Maypole not included). Don't be shy, no previous experience is required as the dances will be called. Kilts encouraged — underwear optional. The dancing will conclude with a Highland dancing demonstration.

The evening will finish with an open jazz and blues jam — semiprofessional MusicSpoons will be provided.

To complete the Scottish experience there will be a well stocked bar from 8 – 11pm accepting both cash and cards.

The evening will be quite informal, so feel free to drop in at any time.

## Book stalls

Friederike Dittberner from De Gruyter will be here on Thursday 7<sup>th</sup> and Friday 8<sup>th</sup> and Clare Charles from OUP on Friday 8<sup>th</sup> and Saturday 9<sup>th</sup>. They are both lovely people so do go along and chat to them!

## Plan ahead! Talks Friday 9<sup>th</sup>

### Day outline

9.30 Vogtmann 3; 10.30 Coffee; 11.00 Contributed talks; 12.30 Lunch; 1.30 Breuillard 4; 2.30 Reid 4; 3.30 Tea; 4.00 Contributed talks; 7.00 (for 7.30) Banquet

### Contributed talks

11.00 – 12.30, Maths Lecture Theatre B

Chair: Olga Macedonska

Igor V. Khramtsov, *On finite groups with small prime spectrum*

Daria Lytkina, *On groups with given spectrum*

Daniela Nikolova-Popova, *On the covering number of small symmetric groups*

11.00 – 12.30, Maths Lecture Theatre C

Chair: Jill Dietz

Daniel C. Mayer, *Finite 3-groups as viewed from class field theory*

Josu Sangroniz, *2-groups with a fixed number of real conjugacy classes*

Jon Gonzalez Sanchez, *On a theorem of Tate*

11.00 – 12.30, Maths Lecture Theatre D

Chair: Mike Vaughan-Lee

Rick Thomas, *FA-presentable groups and semigroups*

Tara Brough, *Anisimov's Theorem for inverse semigroups*

Jens Harlander, *Relation lifting and the relation gap problem*

4.00 – 5.30, Maths Lecture Theatre B

Chair: Stephen Humphries

Natalia V. Maslova, *On the normal structure of a finite group with restrictions on maximal subgroups*

Evgeny Vdovin, *An analogue of the Frattini Argument for Hall subgroups*

Elizabeth Wilcox, *Recent developments in the study of the Chermak-Delgado lattice of a finite group*

4.00 – 5.30, Maths Lecture Theatre C

Chair: Marcel Herzog

Sophie Decelle, *The 6-transposition Coxeter groups  $G^{(m,n,p)}$*

Sarah Hart, *Permutation statistics in classical Weyl groups*

Eloisa Detomi, *The probability of generating a monolithic group*

4.00 – 5.30, Maths Lecture Theatre D

Chair: Tara Brough

Andrey Vasil'ev, *On locally finite groups with bounded centralizer chains*

Karl Lorensen, *Near supplements and complements in solvable groups of finite rank*

Sam Jones, *Groups, formal language theory, and decidability*

### Additional Information

We will only be running the conference desk in the Physics Foyer during all the breaks and before the first talk from 9.00am onwards. Near the desk are poster boards with full abstracts. Abstracts can also be viewed via the conference website <http://www.groupsstandrews.org/2013/index.shtml>, and there's also a board with abstracts outside Theatre B of the Maths Department.

### Banquet

If you are getting fed up of hall food you will be delighted to hear that the conference banquet will be held tomorrow evening in the Gateway building (number 18 on the university map) at 7pm. Dressing up (possibly as your favourite theorem or in your Sunday best) is encouraged but not necessary.

### Taxis to airport

For those planning to take a taxi to Edinburgh airport later in the week, please check the noticeboard by the registration desk to find people to share with. Save the planet and your wallet!

### Kourovka Notebook

Another 12 copies have been delivered (for those of you that don't have enough problems of their own) and are available at the registration desk for the low price of £10 (when it is manned).

### Photos and Chat

For you hip, groovy, cool cats of the Facebook generation the conference is still at <https://www.facebook.com/events/539813526085443/>. Please feel free to mosey on down and upload photos, start discussions, and contribute mathematical problems!

### Plan ahead! "Pub" of the day

The bar at Upper College Hall — so come along to a great evening of music and fun!