



Today's talks

Day outline

9:30 Brion 3; 10:30 Coffee; 11:00 Contributed talks;
12:30 Lunch; 13:30 Tiep 4; 14:30 Kassel 4; 15:30
Coffee; 16:00 Contributed talks

Contributed talks

[Note additional contributed talks added to the
schedule.]

11:00am – 12:30pm, Location – 4th Floor Herschel,
Teaching Room 4 (HERB.4.TR4)

Chair: Alan Logan

Marcel Herzog: *On $D(j)$ -groups with an element of
order p^{j+1}*

Marco Trombetti: *Uncountable Groups and Abstract
Group Properties*

Rick Thomas: *Word problems and formal language
theory*

11:00am – 12:30pm, Location – 4th Floor Herschel,
Teaching Room 2 (HERB.4.TR2)

Chair: Rebecca Afandi

Luca Di Gravina: *The Möbius function of finite
classical groups*

Carmine Monetta: *The structure of a finite group from
a neighborhood's point of view*

Sofia Brenner: *The socle of the center of a group
algebra*

16:00pm – 17:00pm, Location – 4th Floor Herschel,
Teaching Room 4 (HERB.4.TR4)

Chair: Simon Smith

Àngel García Blàzquez: *The Isomorphism Problem
for Rational Group Algebras of Metacyclic Groups*

Erzsébet Horváth: *Constructing arbitrary depth with
the help of wreath products*

16:00pm – 17:00pm, Location – 4th Floor Herschel,
Teaching Room 2 (HERB.4.TR2)

Chair: Adam Thomas

Aluna Rizzoli: *On the isometry group of a finite
dimensional Banach space*

Vanthana Ganeshalingam: *Subgroup Structure of the
Exceptional Group of Type F_4*

The Daily Simple Exercise

Which positive integers can appear as the minimum
index of a maximal subgroup?

Hint: All but finitely many.

Badges

Please wear your badge at all times, otherwise you
may well forget who you are.

Newcastle people and conference helpers have stars
on their badges and perplexed looks on their faces to
aid identification of those with local knowledge.

Pub of the day!

The *Wobbly Duck* again, on the grassy Eldon Square.

An Interview with Adam Thomas

Your trusty editor interviewed one half of the AJL &
ART double-act and generally all-round
happy-go-lucky guy over a couple of milkshakes at
Fat Hippo.

Question 1: Which group is the most evil?

It has to be a finite group of Lie type at a bad prime.
And personally, I find the very twisted groups evil -
confusion over q vs q^2 is not their fault, but I'm going
to blame them anyway. So, I'm going with ${}^2F_4(2)$.

Question 2: Which actor would you most like to see portray you in film? Why?

Peter Kay. I don't think people would believe Brad
Pitt playing me, and I like to think I'm funny and
likable.

Question 3: What were the highlights/lowlights of the excursion to Hadrian's wall?

Highlight: surviving the 'casual' walk which included
many more 'ups and downs' than I had expected. The
pint tasted better for it, at least.

Lowligh: the 2016 English Tree of the Year Winner.
Or better said, a not-particularly-impressive
Sycamore tree in a wall.

Weekend check-out

When leaving Castle Leazes on Saturday, post keys
and key-cards through the vent in the reception door.

Taxis

Try Blue Line taxis on 0191 262 6666. They also
have an app you can download.

For those with no soul, there is also Uber.

Solution to Tuesday's Dynkin diagram

Pretentious solution: $\tilde{A}_{11}$

Non-pretentious solution: a circle

Food, glorious food!

Breakfast

If you are staying in Castle Leazes, tomorrow (Saturday the 6th), a continental breakfast for you will be placed in the fridges on the floor that you are staying on, and you should help yourself to an appropriate amount of food.

Lunch

For today (Friday), the closest convenient lunch spot is the university canteen, "Courtyard". For a wider range of options, try out Grainger Market, 5 minutes walk away.

On Saturday, lunch will be provided.

Dinner

A description of a large number of places to eat/drink is here: <https://tinyurl.com/5n7r989x>

Plan ahead! Talks on Saturday

Day outline

9:30 Smith; 10:30 Coffee; 11:00 Contributed talks; 12:00 Lunch; 13:30 Eick; 14:30 Osin 4; 15:30 Coffee; 16:00 Brion 4; Survivor's Party!

Contributed talks

11:00am – 12:00pm, Location – 4th Floor Herschel, Teaching Room 4 (HERB.4.TR4)

Chair: Alastair Litterick

Thomas Breuer: *Finite groups can be generated by a π -subgroup and a π' -subgroup*

Maria Ferrara: *On Groups Factorized by Mutually Permutable Subgroups*

11:00am – 12:00pm, Location – 4th Floor Herschel, Teaching Room 2 (HERB.4.TR2)

Chair: Martyn Quick

Mathew Timm: *GBS Groups: A topological approach*

Alan Logan: *The Conjugacy Problem for Ascending HNN-extensions of Free Groups*

Math Jokes

Joke 1

I caught one of my hens counting her eggs. It was okay though; she is a mathema-chicken and, honestly, one egg is un oeuf.

Broma 2

¿Qué le dijo el 1 al 10?

Soy como tú, pero soy sincero.

Joke 3

What do you get when you cross a mosquito with a mountain climber?

Nothing! You can't cross a vector and a scalar.

Poetry

The following are math limericks either found online or constructed with very little sleep/talent. Enjoy at your own risk.

(1) An Equation

A dozen, a gross and a score,
plus three times the square root of four
divided by seven
plus five times eleven
is nine squared and not a bit more.

(2) Galois

From arctic to tropical climes,
the integers, addition and times,
mod p will yield
a full finite field
as p ranges over the primes.

(3) Loss

There once was an unfortunate group
whose axioms had started to droop.
Associativity was lost.
It's structure was cost
and now it is only a loop.

(4) Zzzzz

I sat through a cool presentation
about groups and their representation.
When suddenly aliens?
Computing in radians!
I dreamt as I lost concentration.

Solution to Monday's Crossword

1	C	O	2	M	M	U	T	3	I	N	4	G		5	B	A	6	N	F	7	F
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8	B	E	T	H	T	W	O		9	L	I	E	T	Y	P	E					
	I		H					M		O			R			C			E		
10	C	H	I	E	F			11	E	P	I	C		12	F	L	A	G			
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14	B	O	U	N	15	D	A	R	Y		16	M	A	T	S	U	O				
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28	O	D	D	P	A	R	T			29	T	R	I	V	I	A	L				
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30	P	A	D	I	C			31	E	X	T	E	N	S	I	O	N				