The Daily Group Theorist

Beyond the boundary 5th August 1997 **No. 9**

Talks Today

Chair: T C Hurley

09:00 J R J Groves: Finitely presented soluble Lie algebras

10:00 Coffee

10:40 R M Bryant: Lie powers of representations of finite groups

11:40 A Caranti: Graded Lie algebras related to the Nottingham group and to p-groups of maximal class

12:40 Lunch

Parallel Session M:

Stream 1. 14:00 Asiain-Ollo; 14:30 Hofmann; 15:00 Longobardi

Stream 2. 14:00 Mattarei; 14:30 Dixon; 15:00 Kimmerle

Stream 3. 14:00 Serdiukova; 14:30 X Fang; 15:00 Tahara

Stream 4. 14:00 Bhattacharjee; 14.30 Parmenter; 15:00 Bachmuth

Stream 1 chaired by A Wilson has the following talks:

M J Asiain-Ollo: Saturated Fitting formations.

M C Hofmann: Characterizing subnormally closed formations.

P Longobardi: Locally nilpotent groups with all subgroups normal by (finite rank).

Stream 2 chaired by H Aydin has the following talks:

S Mattarei: Weak Cayley tables.

M R Dixon: Groups with subgroups having prescribed properties.

W Kimmerle: Recent advances on the isomorphism problem.

Stream 3 chaired by J J McDermott has the following talks:

N A Serdiukova: Applications of purities on predicates to some problems in group theory.

X G Fang: On the automorphism groups of certain non-quasiprimitive graphs.

K-I Tahara: On generalised third dimension subgroups.

Stream 4 chaired by S. Tobin has the following talks:

M Bhattacharjee: Some constructions in permutation group theory.

M M Parmenter: The normalizer conjecture for integral group rings.

S Bachmuth: Generalised Burnside groups.

Tea

Parallel Session N:

Stream 1. 16:00 Detomi; 16:30 Rosenberger

Stream 2. 16:00 Harlander; 16:30 Albar

Stream 3. 16:00 Eick; 16:30 Foguel

Stream 4. 16:00 Wujie Shi and V. Mazurov (60 minutes)

Stream 1 chaired by A Wilson has the following talks:

E Detomi: On some products of nilpotent groups.

G Rosenberger: Generic elements, best elements and almost primitive elements in free groups.

Stream 2 chaired by H Aydin has the following talks:

J Harlander: On the dimension of groups acting on buildings.

M A Albar: The affine Weyl group of type $\tilde{C}_{n-1}$.

Stream 3 chaired by J J McDermott has the following talks:

B Eick: Enumerating p-groups and the groups of order 512.

T Foguel: A look at conjugate-permutable subgroups.

Stream 4 chaired by S Tobin has the following talks:

Wujie Shi and V Mazurov : Groups whose elements have given orders. (60 minutes.)

Football

There will be an opportunity for members of the conference to be humiliated by the Baths University Mathematics Postgraduate Football Team tomorrow (Wednesday) 15:00 - 16:30. Details and a "sign-up" list are in the conference office. All those who would like to play are encouraged to register their availability as soon as possible (team selection will be made on a very scientific basis - "first-come first-served") and then to repudiate the editor's lack of faith in their ability by soundly trouncing the locals! It's important people do sign on the list, however, and read the instructions there if they want to play; there is a lot of useful information (such as the fact that the game will be played on astroturf, and so trainers, not football boots, are the order of the day).

Two more things to note. First, the match clashes with the bus trip, making it slightly tricky to participate in both events. Second, "football" here means "soccer", and so the opportunities for budding quarterbacks, scrum-halves or whatever will be slightly more limited than would otherwise have been the case.

Cricket

Tonight (well, late this afternoon) is the long awaited England versus Australia Cricket match (weather permitting). The talks end at 17:00 today and combatants, well-wishers, cheer-leaders, bemused spectators and so on should gather at the field on the right as you enter the University by the main entrance (you may have noticed the *Groups 1997 memorial wall* under construction). All being well, the first ball will be bowled at around 17:30.

We do appreciate that cricket is a mildly confusing game. Persons wishing to *appear* knowledgeable (while really somewhat baffled by the strange goings on) could do worse than mutter such expressions as *Should seam around a bit today* or *Looks like it will take spin later on.* The effect is diminished, however, if it becomes clear that you think you are talking about one of the players; it's a lot more convincing if you're looking at the pitch (i.e. the area of grass between the bits of wood stuck in the ground) when you are saying this. Poking the ground and wearing a silly hat increases the effect.

Bus Trip III

A repeat of yesterday's message, especially for the porous and/or claustrophobic!

The third bus trip tomorrow is weather resistant. Adventures will include Wells Cathedral (which can be viewed from inside) and *Gough's Cave* in Cheddar Gorge. This is a deep limestone cave with very beautiful rock formations. It is well lit, and the ground is paved. It is tall and wide.

Mathematical Olympiad

The top nine teams in the Mathematical Olympiad were (allegedly) as follows:

1. China.

2. Hungary.

3. Iran.

4=. Russia / USA.

6. Ukraine.

7=. Bulgaria / Romania.

9. Australia.

The improvements in the British educational system generated by the *National Curriculum*, and more impressive bureaucracy, are obviously working as planned. In the circumstances, it would be foolish to pay teachers a proper salary, or to mend the school buildings, until the children demonstrate that they deserve such treatment.

Saturday Morning

Several people may need to get to the train station on Saturday morning (9th August) before the bus starts running. Since taxis are four or five pounds, participants may well wish to share and there is a sign-up sheet in the conference office for early morning taxis. See Tim Hsu for details.

Balloon news

This will be the final balloon news of the conference. Bob Bryce has undertaken to fly somewhere else, and to send a photograph.

Coming Soon

Information about the the British Society for the History of Mathematics celebration of *William Fairweather Burnside.*

Post-cricket trauma?

Come to the SCR at 21:00 **TODAY** to be shouted at by *Les Bryants. Possum Pie* will fiddle while Romans turn. It is hoped that *Postgrad Bill* will give the event a Scottish flavour by bringing his bagpipes.

Literary Tips

Some of the most faithful readers of the *GTLS* have complained that the Monday Quiz was the most difficult literary quiz ever published in the Daily Group Theorist. Without taking the blame we have kindly decided to provide some useful hints, and to slightly modify the rules of the game.

1. Conferring is no longer forbidden; in fact it is obligatory. You must not think of the quiz while you are alone.

2. In order to maximize your chances of success you are encouraged to assemble into large groups, say 300 each, while coping with the intellectual challenges of this competition.

3. Among the authors whose work is quoted in the quiz, you will find 3 Englishmen, 2 Americans, 2 Israelis, 1 Frenchman, 1 Irishman, 1 German and 1 Russian.

4. You may wonder why the above numbers do not quite add up to 10. We are afraid we cannot help you with this.

5. The closing date for the submission of written solutions is Wed Aug. 6 at 11:07. However, it is likely that at this time the editors of the *GTLS* will be busy, attending some talks. You might therefore consider catching them slightly earlier.

AS + OT