Activity Report

The International Workshop on Groups & Representations and Related topics (IWGRR) has been successfully held in Chongqing, China between May 16 to May 20, 2018. Please see the conference website.

http://mathmeeting.cqwu.edu.cn/

The conference has arranged 54 research talks. About 140 participants/speakers have attended the conference. The participants/speakers are from China, USA, Japan, Italy, Russia, and Iran. I have included the conference schedule in the following.

International Workshop on Groups Representations and Related Topics

May 16-20, 2018
Yongchuan  Chongqing  P. R. China

Schedule

Wednesday, May 16
9:00-18:00  Registration  Botian Hotel (1st floor)
18:30-20:00  Dinner
20:30-21:00  Scientific Committee Meeting

Tuesday, May 17

Morning
8:20-8:50  Opening ceremony
Zeping Sun (Chair of the University Council)
Opening Speech
8:50-9:20  Taking Photograph
Plenary Talks (Chair: Yun Fan)
9:20-10:00  Victor Mazurov  Characterizations of simple linear groups in the class
of periodic groups

10:00-10:20  Tea Break

Plenary Talks (Chair: 郭秀云 Xiuyun Guo)

10:20-11:00  李才恒 Cai-heng Li  Erdos-Ko-Rado problem for permutation groups
11:00-11:40  惠昌常 Changchang Xi  A reduction technique for Broue’s Conjecture

12:00-14:00  Lunch Break

Afternoon

Plenary Talks (Chair: 施武杰 Wujie Shi)

14:00-14:40  Zongzhu Lin  Geometric setting of association schemes
14:40-15:20  王杰 Jie Wang  The groups behind music
15:20-16:00  Tea Break
15:40-16:20  郭文彬 Wenbin Guo  Recent progress on finite groups
16:20-17:00  Danila Revin  On Wielandt’s program of studying maximal $x$-subgroups of finite groups
17:00-17:40  赵宪钟 Xianzhong Zhao  Global determinism of semigroups

18:00-20:00  Dinner

Friday, May 18

Morning

Plenary Talks (Chair: 郭文彬 Wenbin Guo)

8:10-8:50  Thomas M. Keller  Small quotients of finite linear groups
8:50-9:30  周远扬 Yuanyang Zhou  Blocks with defect group $Z_{2^n} \times Z_{2^n} \times Z_{2^m}$
9:30-10:10  Ilia Ponomarenko  Amalgams of finite abelian groups and quasiregular coherent configurations
10:10-10:30  Tea Break
10:30-11:10  钱国华 Guohua Qian  Nonsolvable groups with few primitive character degrees
11:10-11:50  Neda Ahanjideh  Simplicity of a finite group and its $\mathcal{C}$ classes

12:00-14:00  Lunch Break
### Afternoon

<table>
<thead>
<tr>
<th>Time</th>
<th>Section A Chair: 李才恒 Cai-heng Li</th>
<th>Section B Chair: 惠昌常 Changchang Xi</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00-14:30</td>
<td>Goansu Kim Abelian subgroup separability of certain HNN extensions</td>
<td>Shuxia Li LAX ALGEBRAIC REPRESENTATION FOR AN INTEGRABLE HIERARCHY</td>
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<tr>
<td>14:30-15:00</td>
<td>Natalia Maslova On coincidence of Gruenberg-Kegel graphs of non-isomorphic finite groups</td>
<td>黎先华 Xianhua Li Finite groups and synchronizing semigroups</td>
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<tr>
<td>15:00-15:30</td>
<td>安立坚 Lijian An Finite 2-groups all of whose non-abelian subgroups are self-centralizing</td>
<td>長龙 Long Miao Some ideas on nonsolvable groups</td>
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<td>15:30-15:50</td>
<td>Tea break</td>
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<tr>
<td>15:50-16:20</td>
<td>陈刚 Gang Chen Coherent Configuration Associated with TI-subgroups</td>
<td>Tatsuro Ito Some problem about the group association scheme</td>
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<tr>
<td>16:20-16:50</td>
<td>陈晓友 Xiaoyou Chen Partial Character Table</td>
<td>李靖建 Jing Jian Li On Symmetric Graphs of odd order and valency 10</td>
</tr>
<tr>
<td>16:50-17:20</td>
<td>秦超 Chao Qin A note on groups whose all non-linear irreducible characters are defect zero</td>
<td>李上钊 Shangzhao Li On the automorphisms of 2-(v, k, 1) designs</td>
</tr>
<tr>
<td>17:20-17:50</td>
<td>申振才 Zhencai Shen Solvable fusion system</td>
<td>沈守强 Shouqiang Shen The undirected annihilating-ideal graphs of non-commutative rings</td>
</tr>
<tr>
<td>17:50-18:20</td>
<td>徐行忠 Xingzhong Xu A note on Oliver’s p-group conjecture</td>
<td>刘海林 Hailin Liu Metacyclic coverings of arc-transitive graph</td>
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**Dinner Banquet (18:30-21:00)**

### Saturday, May 19

**Morning**
Plenary Talks (Chair: 陈贵云  Guiyun Chen)
8:10-8:40  Daria Lytkin  Scientific achievements of Victor Mazurov
8:40-9:10  张良才  Liangcai Zhang  Scientific achievement of Wujie Shi
9:10-9:50  Andrey Vasil’ev  On the isomorphism problem for combinatorial objects associated with finite groups
9:50-10:10  Tea Break
10:10-10:50  Silvio Dolfi  Zeros of irreducible characters of finite groups
10:50-11:30  Yuanlin Li  A combinatoric problem in group theory- B(n, k)-groups
11:30-12:10  Zhijun Qiao  Lax algebra and r-matrix in integrable systems
12:10-14:00  Lunch break
Afternoon

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<td>14:00-14:30</td>
<td>杨勇 Yong Yang  Orbit structure of group actions</td>
<td>张文婷 Wenting Zhang  The finite basis problem for involution semigroups of triangular matrices</td>
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<td>14:30-15:00</td>
<td>韦华全 Huaquan Wei  On nearly s-embedded subgroups of finite groups</td>
<td>任苗苗 Miaomiao Ren  On the varieties of semilattice-ordered semigroups satisfying $x^n \approx x$</td>
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<td>15:00-15:30</td>
<td>邵长国 Changguo Shao  Structure of finite groups with four conjugacy class sizes of certain elements</td>
<td>胡学琴 Xueqin Hu  2-blocks with hyperfocal subgroup $(\mathbb{Z}_2)^3$</td>
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<td>15:30-15:50</td>
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<td>15:50-16:20</td>
<td>苏宁 Ning Su  On supersolvable saturated fusion systems</td>
<td>汪忠碧 Zhongbi Wang  An ONC-characterization of $A_{14}$ and $A_{15}$</td>
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<tr>
<td>16:20-16:50</td>
<td>刘燕俊 Yanjun Liu  On Hilbert divisors</td>
<td>杨东芳 Dongfang Yang  p-groups with two character degrees</td>
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<tr>
<td>16:50-17:20</td>
<td>刘仕田 Shitian Liu  Vertex degrees of prime graph and group structure</td>
<td>高聪 Cong Gao  Finite groups with some special degrees of irreducible characters</td>
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<td>17:20-17:50</td>
<td>孔庆军 Qingjun Kong  On vanishing criteria that control finite group structure II</td>
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Dinner  Banquet (18:00-21:00)
Sunday, May 20

Morning

Plenary Talks (Chair: 王杰 Jie Wang)

8:10-8:50  Alireza Moghaddamfar  Decompositions of finite groups through related graphs
8:50-9:30  李样明 Yangming Li  Extension via mutually permutable product
9:30-10:10 王登银 Dengyin Wang  Determining number of finite groups
10:10-10:50 曾吉文 Jiwen Zeng  Frobenius Group and value field of characters monoids
10:50-11:30 马纪成 Jicheng Ma  Covering techniques and its applications

12:00-14:00  Lunch break

Afternoon

Chair: 施武杰 Wujie Shi

14:00-14:40  Free discussion
14:40-15:20  Free discussion
18:00-20:00  Dinner