

# BMS/SFB Summer School 2017: Discrete Models in Geometry and Mathematical Physics

## Time Schedule: First week

All lectures take place in **Room MA 041** (follow the signs), Institute of Mathematics, TU Berlin, Strasse des 17. Juni 136, 10623 Berlin  
**Registration starts Monday 9:00.**

|                | <b>Monday 11</b>  | <b>Tuesday 12</b>   | <b>Wednesday 13</b>   | <b>Thursday 14</b>  | <b>Friday 15</b>  |
|----------------|---|---|---|---|---|
| 9:30 – 11:00   | 9:00 Registration<br><br><i>Starting 10:00<br/>Welcome Session</i><br><br>Alexander Bobenko<br>Yuri Suris<br>Sabine Hunke | <i>Multivalued dynamics and Klein's Erlangen programme</i><br><br><br><br><br>Alexander Veselov | <i>Multivalued dynamics and Klein's Erlangen programme</i><br><br><br><br><br>Alexander Veselov                                       | <i>On Thurston's vision in geometry, topology, and dynamics – and aspects of current research</i><br><br><br><br><br>Dierk Schleicher | <i>On Thurston's vision in geometry, topology, and dynamics – and aspects of current research</i><br><br><br><br><br>Dierk Schleicher |
| 11:00 – 11:30  | coffee break  | coffee break  | coffee break  | coffee break  | coffee break  |
| 11:30 – 13:00  | <i>Random matrices, random graphs and integrability</i><br><br><br><br><br>Vladimir Kazakov                               | <i>Random matrices, random graphs and integrability</i><br><br><br><br><br>Vladimir Kazakov     | <i>On Thurston's vision in geometry, topology, and dynamics – and aspects of current research</i><br><br><br><br><br>Dierk Schleicher | <i>Random matrices, random graphs and integrability</i><br><br><br><br><br>Vladimir Kazakov   | <i>The geometry of dimer models</i><br><br><br><br><br>David Cimasoni   |
| 13:00 – 14:30  | lunch break (14:00 coffee)  | lunch break (14:00 coffee)  | lunch break (14:00 coffee)  | lunch break (14:00 coffee)  | lunch break (14:00 coffee)  |
| 14:30 – 16:00  | <i>Multivalued dynamics and Klein's Erlangen programme</i><br><br><br><br><br>Alexander Veselov                           | <i>The geometry of dimer models</i><br><br><br><br><br>David Cimasoni                           | <i>The geometry of dimer models</i><br><br><br><br><br>David Cimasoni   | <i>Discrete quadrics</i><br><br><br><br><br>Alexander Bobenko   | <i>Discrete quadrics</i><br><br><br><br><br>Alexander Bobenko   |
| Starting 17:00 | <i>Get together</i>   | Movie<br><i>Whispers of String Theory</i>   |   | Movie<br><i>The Discrete Charm of Geometry</i>  |   |

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|                | <b>Monday 18</b>  | <b>Tuesday 19</b>   | <b>Wednesday 20</b>   | <b>Thursday 21</b>   | <b>Friday 22</b> |
|----------------|---|---|---|--|------------------|
| 9:30 – 11:00   | <i>The geometry of the self-duality equations over a Riemann surface</i><br><br>Franz Pedit | <i>The geometry of the self-duality equations over a Riemann surface</i><br><br>Franz Pedit | <i>The geometry of the self-duality equations over a Riemann surface</i><br><br>Franz Pedit | <i>Lagrangian theory of integrable systems</i><br><br>Yuri Suris               |                  |
| 11:00 – 11:30  | coffee break  | coffee break  | coffee break  | coffee break   |                  |
| 11:30 – 13:00  | <i>Cluster algebras and Coxeter groups</i><br><br>Anna Felikson                             | <i>Cluster algebras and Coxeter groups</i><br><br>Anna Felikson                             | <i>Cluster algebras and Coxeter groups</i><br><br>Anna Felikson                             | <i>Final Discussion</i><br><br>Alexander Bobenko<br>Yuri Suris<br>Sabine Hunke |                  |
| 13:00 – 14:30  | lunch break (14:00 coffee)  | lunch break (14:00 coffee)  | lunch break (14:00 coffee)  | DEPARTURE  |                  |
| 14:30 – 16:00  | <i>Discrete quadrics</i><br><br>Alexander Bobenko   | <i>Lagrangian theory of integrable systems</i><br><br>Yuri Suris                            | <i>Lagrangian theory of integrable systems</i><br><br>Yuri Suris                            |  |                  |
| Starting 17:00 |   |   | Soccer @ "Tempelhofer Feld"<br>ALTERNATIVELY:<br>Movie<br><i>Colors of Math</i>             |  |                  |