

# Timetable

## Monday, 23 of August

|             |                                            |                                                             |
|-------------|--------------------------------------------|-------------------------------------------------------------|
| 13:00–15:00 | Registration                               |                                                             |
| 15:00–15:10 | Opening                                    |                                                             |
| 15:10–16:00 | <b>Pavol Hell</b><br>Simon Fraser U.       | In praise of loops                                          |
| 16:00–16:20 | <b>Přemysl Holub</b><br>UWB Plzeň          | On $S$ -packing colouring of distance graphs                |
| 16:20–16:40 | Coffee break                               |                                                             |
| 16:40–17:00 | <b>Tatiana Jajcayová</b><br>Comenius Univ. | Rearrangement problem of bicolor arrays by prefix reversals |
| 17:00–17:20 | <b>Petr Kovář</b><br>VŠB–TU Ostrava        | Supermagic graphs with arbitrary degree differences         |
| 17:20–17:40 | <b>Jakub Závada</b><br>VŠB–TU Ostrava      | Scheduling of incomplete tournaments                        |
| 17:40–18:00 | <b>Václav Blažej</b><br>CTU Prague         | $m$ -eternal domination number of cactus graphs             |
| 20:00–21:00 | Welcome reception                          |                                                             |

## Tuesday, 24 of August

| 09:00–12:00 | Morning                                   |                                                                              |
|-------------|-------------------------------------------|------------------------------------------------------------------------------|
| 09:00–09:50 | <b>Klavdija Kutnar</b><br>Univ. Primorska | Vertex-transitive graphs via automorphisms with or without fixed vertices    |
| 09:50–10:10 | <b>Martin Bachratý</b><br>STU Bratislava  | Orientably-regular maps with no non-trivial exponents                        |
| 10:10–10:40 | Coffee break                              |                                                                              |
| 10:40–11:00 | <b>Robert Jajcay</b><br>Comenius Univ.    | A connection between a question of Bermond and Bollobás and Ramanujan graphs |
| 11:00–11:20 | <b>Katarína Čekanová</b><br>Šafárik Univ. | Light edges in embedded graphs with minimum degree 2                         |
| 11:20–11:40 | <b>Mária Skyvová</b><br>UWB Plzeň         | Classification of finite group actions on orientable surfaces                |
| 11:40–12:00 | <b>Peter Czimmermann</b><br>Univ. Žilina  | Voltage graphs in the services of location science                           |

| 15:00–18:00 | Afternoon                                 |                                                              |
|-------------|-------------------------------------------|--------------------------------------------------------------|
| 15:00–15:50 | <b>Andrzej Grzesik</b><br>JU Kraków       | Generalized Turán problem for cycles                         |
| 15:50–16:10 | <b>Jozef Rajník</b><br>Comenius Univ.     | Uniquely 3-edge-colourable graphs with cyclic connectivity 4 |
| 16:10–16:40 | Coffee break                              |                                                              |
| 16:40–17:00 | <b>Róbert Lukotka</b><br>Comenius Univ.   | Circular flow number of Goldberg snarks                      |
| 17:00–17:20 | <b>Roman Nedela</b><br>UWB Plzeň          | Cubic graphs of defect 3                                     |
| 17:20–17:40 | <b>Edita Máčajová</b><br>Comenius Univ.   | Perfect matching index of cubic graphs with defect 3         |
| 17:40–18:00 | <b>Ján Karabáš</b><br>MI SAS, B. Bystrica | Girth, oddness, and colouring defect of snarks               |

## Wednesday, 25 of August

|             |                                          |                                                                          |
|-------------|------------------------------------------|--------------------------------------------------------------------------|
| 09:00–12:00 | Morning                                  |                                                                          |
| 09:00–09:50 | <b>Maria Saumell</b><br>CAS + CTU Prague | Hamiltonicity of Delaunay graphs:<br>An overview                         |
| 09:50–10:10 | <b>Petr Vrána</b><br>UWB Plzeň           | Hamilton-connected<br>{claw,net}-free graphs                             |
| 10:10–10:40 | Coffee break                             |                                                                          |
| 10:40–11:00 | <b>Martin Knor</b><br>STU Bratislava     | Distance based indices<br>in generalized nanotubical graphs              |
| 11:00–11:20 | <b>Martin Škoviera</b><br>Comenius Univ. | Determining the perfect matching<br>index of a snark is NP-complete      |
| 11:20–11:40 | <b>Ján Kratochvíl</b><br>Charles Univ.   | Covers of disconnected graphs: What<br>are they? And why should we care? |
| 11:40–12:00 | <b>Onur Çağırıcı</b><br>Masaryk Univ.    | Unit disk visibility graphs                                              |
| 13:00–20:00 | Hiking afternoon                         |                                                                          |

## Thursday, 26 of August

|             |                                           |                                                        |
|-------------|-------------------------------------------|--------------------------------------------------------|
| 09:00–12:00 | Morning                                   |                                                        |
| 09:00–09:50 | <b>Paweł Rzażewski</b><br>WUT + UW        | <i>H</i> -free graphs:<br>from structure to algorithms |
| 09:50–10:10 | <b>Tomáš Kaiser</b><br>UWB Plzeň          | Kempe equivalence<br>in odd-hole-free graphs           |
| 10:10–10:40 | Coffee break                              |                                                        |
| 10:40–11:00 | <b>Stanislav Jendroľ</b><br>Šafárik Univ. | Loose edge-connection of graphs                        |
| 11:00–11:20 | <b>Tomáš Madaras</b><br>Šafárik Univ.     | Facial homogeneous colourings<br>of graphs             |
| 11:20–11:40 | <b>Alfréd Onderko</b><br>Šafárik Univ.    | Edge homogeneous colorings                             |
| 11:40–12:00 | <b>Zuzana Šárošiová</b><br>Šafárik Univ.  | Interval vertex coloring of trees                      |

|             |                                         |                                                                       |
|-------------|-----------------------------------------|-----------------------------------------------------------------------|
| 15:00–18:00 | Afternoon                               |                                                                       |
| 15:00–15:50 | <b>Michał Pilipczuk</b><br>Univ. Warsaw | Structural graph theory through<br>the lens of First Order logic      |
| 15:50–16:10 | <b>Peter Zeman</b><br>Charles Univ.     | Testing isomorphism of chordal graphs<br>of bounded leafage is in FPT |
| 16:10–16:40 | Coffee break                            |                                                                       |
| 16:40–17:00 | <b>Jakub Balabán</b><br>Masaryk Univ.   | Twin-width is linear in the poset width                               |
| 17:00–17:20 | <b>Filip Pokrývka</b><br>Masaryk Univ.  | Twin-width of circle graphs                                           |
| 17:20–17:40 | <b>Petr Hliněný</b><br>Masaryk Univ.    | Isomorphism testing<br>for <i>T</i> -graphs in FPT                    |
| 17:40–18:00 | <b>Deniz Ağaoğlu</b><br>Masaryk Univ.   | Proper <i>T</i> -graph isomorphism<br>in FPT-time                     |
| 19:00–21:00 | Conference dinner                       |                                                                       |

## Friday, 27 of August

|             |                                         |                                                                                                           |
|-------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 09:00–12:00 | Morning                                 |                                                                                                           |
| 09:00–09:50 | <b>Michael Drmota</b><br>TU Wien        | Subgraph statistics in series-parallel graphs and related graph structures                                |
| 09:50–10:10 | <b>Štefan Gyürki</b><br>STU Bratislava  | Vertex transitive directed strongly regular graphs of order up to 32                                      |
| 10:10–10:40 | Coffee break                            |                                                                                                           |
| 10:40–11:00 | <b>Pavol Jánoš</b><br>STU Bratislava    | On a relation between $G$ -graphs and lifting construction                                                |
| 11:00–11:20 | <b>Soňa Pavlíková</b><br>STU Bratislava | Upper bounds on the HOMO-LUMO spectral gap of graphs                                                      |
| 11:20–11:40 | <b>Jozef Širáň</b><br>STU Bratislava    | Classification of orientably-regular maps of genus $p + 1$ for prime $p$ without computational assistance |