

Friday, September 5

9:00 – 11:00	Session 7 , chair: M. Milanič
9:00 – 10:00	R. Rizzi: <i>Covering the edges of a graph by matchings of bounded size</i> (invited talk)
10:00 – 10:30	T. Pisanski: <i>Cubic graphs with one-factor and the associated quartic graphs</i>
10:30 – 11:00	S. Bonvicini: <i>Palette index of 4-regular graphs</i>
11:00 – 11:20	Coffee break
11:20 – 12:50	Session 8 , chair: Š. Miklavič
11:20 – 12:20	T. Ekim: <i>Minimum Maximal Matching: old problem, new challenges</i> (invited talk)
12:20 – 12:50	G. Gévay: <i>Regular maps whose 1-skeleton is a generalized Petersen graph</i>
13:00 – 14:00	Research discussions

Note: the talk by Wilfried Imrich (on Thursday, September 4 at 10:50) has been modified compared to the content in the book of abstracts. The new abstract follows.

The Cartesian product of graphs with loops

Wilfried Imrich

Montanuniversität Leoben, Austria

imrich@unileoben.ac.at

We extend the definition of the Cartesian product to graphs with loops and show that the Sabidussi-Vizing unique prime factorization theorem for connected finite simple graphs still holds in this context for all connected finite graphs with at least one unlooped vertex.

We also prove that the prime factorization can be computed in $O(m)$ time, where m is the size of the given graph.

Joint work with Tetiana Boiko (TU Graz), Johannes Cuno (TU Graz), Florian Lehner (TU Graz), and Christiaan E. van de Woestijne (MU Leoben).