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The Faculty of Mathematics and Computer Science, Ovidius University of Constanta

Department of Mathematics, Algebra section, KU Leuven, Belgium

Half-day workshop on the interplay between different mathematical disciplines

organized in honor of Professor Willem Veys from *KU Leuven, Belgium, Doctor Honoris
Causa of Ovidius University of Constanta, Romania*

April 8th, 2016,

Faculty of Mathematics and Computer Science, Room E8 (Ovidius University, 124
Mamaia Bd., 900527, Constanta, Romania)

Organizing committee:

Wladimir BOSKOFF (Ovidius University of Constanta, Romania);

Constantin COSTARA (Ovidius University of Constanta, Romania);

Viviana ENE (Ovidius University of Constanta, Romania);

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PROGRAM

10.00 – 10.50, Room E8: Willem VEYS (KU Leuven, Belgium): *An introduction to the monodromy conjecture*;

10.50 – 11.10, Room P5: *Coffee Break*;

11.10 – 12.00, Room E8: Viviana ENE (Ovidius University of Constanta, Romania): *Binomial edge ideals: some known results and several questions*;

12.00- 12.10: *Break*;

12.10 -13.00, Room E8: Florin AMBRO (Institute of Mathematics Simion Stoilow of the Romanian Academy): *On toric face rings*

ABSTRACTS

Florin AMBRO (Institute of Mathematics Simion Stoilow of the Romanian Academy): **On toric face rings**

Toric face rings are rings endowed with a certain torus action, which correspond to affine toric varieties, possibly not normal or irreducible. I will present a criterion for a toric face ring to satisfy Serre's property (S_2) . As an application, we construct toric examples of semi log canonical singularities.

Viviana ENE (Ovidius University of Constanta, Romania): **Binomial edge ideals: some known results and several questions**

In this talk we survey some recent results on binomial ideals associated with graphs. Some conjectures and new questions inspired by the current research in this topic are discussed.

Willem VEYS (KU Leuven, Belgium): **An introduction to the monodromy conjecture**

We discuss a mysterious conjecture of Igusa, relating number theoretical and geometric/topological properties of a polynomial function, defined over the integers. The conjecture is motivated by properties of certain integrals associated to real or complex polynomials.