

# Combinatorics in Commutative Algebra

20 – 24 September 2010, Bucharest, Romania

Organized by: IMAR, Ovidius University (Constanta), Faculty of Mathematics and Computer Science (Bucharest), Romanian Mathematical Society

## Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
09:00 – 10:30	<p><b><u>Juergen Herzog</u></b></p> <p><i>Powers of componentwise linear ideals with some applications to chordal graphs.</i></p>	<p><b><u>Marius Vladoiu</u></b></p> <p><i>Finite generation of cones.</i></p>	<p><b><u>Marius Vladoiu</u></b></p> <p><i>Affine monoids and their Hilbert bases.</i></p>	<p><b><u>Bogdan Ichim</u></b></p> <p><i>Affine monoid rings.</i></p>	<p><b><u>Bogdan Ichim</u></b></p> <p><i>Normal affine monoid rings.</i></p>
10:30 – 11:00	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11:00 – 12:30	<p><b><u>Marius Vladoiu</u></b></p> <p><i>Polyhedra and their faces.</i></p>	<p><b><u>Juergen Herzog</u></b></p> <p><i>Binomial edge ideals.</i></p>	<p><b><u>Anda Olteanu</u></b></p> <p><i>A class of normally torsion free monomial ideals</i></p>	<p><b><u>Juergen Herzog</u></b></p> <p><i>Groebner bases of syzygies and Stanley decompositions.</i></p>	<p><b><u>Bogdan Ichim</u></b></p> <p><i>Introduction to Normaliz.</i></p>
			<p><b><u>Oana Olteanu</u></b></p> <p><i>Primary decomposition for squarefree lexsegment ideals</i></p>		<p><b><u>Muhammad Ishaq</u></b></p> <p><i>Upper bounds for the Stanley depth.</i></p>
			<p><b><u>Cristian Ion</u></b></p> <p><i>Vertex cover algebras of unmixed bipartite graphs.</i></p>		
12:30 – 13:00	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
13:00 – 13:30	<p><b><u>Viviana Ene</u></b></p> <p><i>Groebner bases of toric ideals</i></p>	<p><b><u>Pantelimon Stanica</u></b></p> <p><i>A quick walk through cryptography</i></p>	<p><b><u>Denis Ibadula</u></b></p> <p><i>Poles of the Igusa's zeta function of some plane curves</i></p>	<p><b><u>Serban Barcanescu</u></b></p> <p><i>Polytopal Algebras</i></p>	<p><b><u>Adrian Popescu</u></b></p> <p><i>Special Stanley decompositions</i></p>
13:30 – 14:00			<p><b><u>Florin Nicolae</u></b></p> <p><i>Riemann's Hypothesis</i></p>		<p><b><u>Dorin Popescu</u></b></p> <p><i>Inequalities between depth and sdepth</i></p>