

Conference of the Network Real Algebraic & Analytic Geometry

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SINGULARITY THEORY

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in honour of Stanisław Łojasiewicz

Cracow, Jagiellonian University, March 21 – 27, 2004

All the lectures will be given in the Larische Palace, 12 Bracka Street

March 22, Monday

- 10:30 Opening and the address by Prof. Czesław Olech
- 11:15-12:00 T.-C.Kuo, *Analytic singularity theory as Infinitesimal Calculus*,
- 16:00-16.45 M.Shiota, *How many manifolds are there*,
- 17:15-18:00 K.Kurdyka, *Toward a real analytic multiparameter perturbation theory*,

March 23, Tuesday

- 10:00-10:45 A.Gabrielov, *Betti numbers of semialgebraic and subpaffian sets*
- 11:15-12:00 T.Fukui, *Mapping degree and Euler characteristic*,
- 16:00-16.45 E.Bierstone, *Resolution of singularities of toric varieties*,
- 17:15-18:00 J.Włodarczyk, *Simple Hironaka resolution in characteristic zero*,
- 18.15-19.00 D.Richardson, *Seminar on o-minimal structures*,

March 24, Wednesday

- 10:00-10:45 B.Malgrange, *Non linear differential Galois Theory*,
- 11:15-12:00 A.van den Essen, *Hesse, the Jacobian Conjecture and the Laplace operator*,
- 16:00-16.45 Y.Yomdin, *Quantitative Singularity Theory, efficiency of computations and Statistics of Semialgebraic Sets*,
- 17:15-18:00 J.-M.Lion, *Paires des champs orthogonaux et à orbites fermées sur un tore*,

March 25, Thursday

- 10:00-10:45 A.Haraux, *Some applications of the Lojasiewicz gradient inequality to asymptotic behaviour of gradient like systems*,
- 11:15-12:00 S.Izumi, *Osgood map and transcendence*,

March 26, Friday

- 10:00-10:45 A.Macintyre, *Schanuel's Conjecture and its impact on the logic of real and complex exponentiation*,
- 11:15-12:00 P.Speissegger, *D-minimality and a trichotomy for germs of planar real analytic vector fields*,
- 16:00-16.45 J.-Ph.Rolin, *Non oscillating integral curves and o-minimal structures*,
- 17:15-18:00 B.Teissier, *Extensions of valuations and singularities*.