



# Stefan Banach International Mathematical Conference Center in Będlewo

Institute of Mathematics, Polish Academy of Sciences

announce a conference on

## FORMAL AND ANALYTIC SOLUTIONS OF DIFFERENTIAL DIFFERENCE AND DISCRETE EQUATIONS

August 26 - 30, 2013

<http://bcc.impan.pl/13Formal&Analytic/>

### Main topics:

- Ordinary differential equations in the complex plane. Formal and analytic solutions. Stokes multipliers.
- Difference and discrete equations, including the q-cases. Dynamic equations.
- Special functions (hypergeometric functions and others), orthogonal polynomials, continuous and discrete Painlevé equations.
- Formal solutions of PDEs (heat, semilinear heat, Burgers type, KdV, nonlinear Schrödinger).
- Holomorphic vector fields. Normal forms.
- Summability of WKB solutions, singular perturbations problems.
- Asymptotic expansions, Borel summability, Gevrey estimates. Summability of formal solutions of difference equations.
- Integrable systems.
- Applications in applied mathematics and mathematical physics.

### Scientific Committee:

Werner Balser (University of Ulm)

Boele Braaksma (University of Groningen)

Yoshishige Haraoka (Kumamoto University)

Stefan Hilger (Eichstadt University)

Donald Lutz (San Diego State University)

Masatake Miyake (Nagoya University)

Hidetoshi Tahara (Sophia University)

Henryk Żołądek (Warsaw University)

### Organizing Committee:

Grzegorz Łysik (Polish Academy of Sciences)

Galina Filipuk (University of Warsaw)

Stephane Malek (University of Lille)

Sławomir Michalik (Cardinal Stefan Wyszyński University)

Masafumi Yoshino (Hiroshima University)



Registration deadline is **May 31, 2013**.

<http://bcc.impan.pl/13Formal&Analytic/index.php/registration>

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