



## Hypercomplex Seminar 2012

### (Hyper)Complex Function Theory, Regression, (Crystal) Lattices, Fractals, Chaos, and Physics

dedicated to the memory of Academician Promarz Tamrazov  
on the occasion of 20 years of the direct cooperation agreement  
Łódź–Kyiv

8 – 15 July 2012, at Będlewo

#### Organizing Committee:

Bogdan Bojarski (Warszawa), Ralitza K. Kovacheva (Sofia),  
László Kozma (Debrecen), Julian Ławrynowicz (Łódź),  
Dariusz Partyka (Lublin), Hariton Polatoglou (Thessaloniki),  
Józef Zająć (Lublin/Chełm), Yuri Zelinskii (Kyiv)

#### Scientific topics (satellite to the Congress of European Mathematicians, Kraków, July 2–7):

- influence of the Łódź-Kyiv direct cooperation agreement (since 1992) on our results in Complex Analysis (CA) and General Physical Ideas (GPI),
- influence of the Lvov School on generalizations of CA and on GPI,
- regression, complex, para-quaternionic, and fractal approximation for crystals, semiconductors, and nanoparticles,
- para-quaternionic, Clifford, Jordan, Ingarden, and fractal structures vs. surface properties of crystals,
- (hyper)complex methods vs. bifurcation, chaos, and quantum information.

Among invited lectures we expect those by Fray de Landa Castillo Alvarado (México, D.F.), Bogdan Bojarski (Warszawa), Stanko Dimiev (Sofia), Pierre Dolbeault (Paris), Janusz Garecki (Szczecin), Rodrigo Gómez Mendoza (México, D.F.), Kazimierz Jezuita (Warszawa), Tomasz Kapitaniak (Łódź), Andriy Kondratyuk (Lviv), Ralitza K. Kovacheva (Sofia), László Kozma (Debrecen), Dominique Lambert (Namur), Guy Laville (Caen), Adam Lecko (Olsztyn), Norman H. March (Oxford), Stefano Marchiafava (Roma), Olli Martio (Helsinki), Kiyoharu Nôno (Fukuoka), Dariusz Partyka (Lublin), Jacques H.H. Perk (Oklahoma City), Hariton Polatoglou (Thessaloniki), Yaroslav G. Prytula (Lviv), Enrique Ramírez de Arellano (México), Jakub Rembieliński (Łódź), Stanisław Romanowski (Łódź), Michael Shapiro (México), Dana Simian (Sibiu), Oksana Sumyk (Lviv), Claude Surry (Font Romeu), Osamu Suzuki (Tokyo), Luis Manuel Tovar Sánchez (México), Yuri Trokhimchuk (Kyiv), Massimo Vaccaro (Roma / Salerno), Matti Vuorinen (Helsinki), Wolfgang L. Wendland (Stuttgart), Józef Zająć (Lublin / Chełm), Zhi-dong Zhang (Shenyang), Yuri Zelinskii (Kyiv), Natalia Zorii (Kyiv).

The organizers can fully support few participants (full board and accommodation), travel excluded. The others have to pay 940 złotys (ca. 220€ or 300 US\$), which includes full board and accommodation from 8 July lunch till 15 July breakfast (840 złotys) and other costs. The Mathematical Research and Conference Center is situated 35 kms South of Poznań and 7 kms West of the nearest railway station at Mosina (railline Poznań – Leszno – Wrocław) in a picturesque noble palace surrounded by a 9 hectare park. It is a perfect starting point for hikes to lakes and forests of the Wielkopolski National Park which is right next to the palace.

The seminar is organized jointly with the University of Łódź.

For more information please contact:

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The numbers of the bank accounts of the Mathematical Research and Conference Center in Będlewo can be found at <http://www.impan.pl/BC/accounts.html>.