PREFACE

The volume contains a choice of historical articles, short memoirs and research papers referring to the Lvov Mathematical School in the period 1915–45. They were connected with the following three Banach Center symposia at the Mathematical Research and Conference Center in Będlewo.

○ Seminar: *Lvov Mathematical School in the Period 1915–45 as Seen Today*, 8–15.08.2005

Scientific topics:

- *Théorie des opérations linéaires* by Banach (Monografje Matematyczne 1932) as seen today,
- *Theorie der Orthogonalreihen* by Kaczmarz and Steinhaus (MM 1935) as seen today,
- *Mechanics I–II* by Banach (MM 1938 and 1951) as seen today,
- ideas of Puzyna, Sierpiński, Kuratowski, Schauder, Mazur, Orlicz, and other leading mathematicians of the Lvov School in contemporary mathematics,
- Lvov-Warsaw School in logic and its relation to philosophy,
- influence of the Lvov School in the development of general physical ideas.

○ Seminar: (*Hyper*)*complex Methods, Chaotic Features, Fractals, and Physical Applications*, 13–20.07.2007

Scientific topic (among others):

- influence of the Lvov School on generalizations of complex analysis and on general physical ideas.

○ Hypercomplex Seminar 2008: *Foliation Modelling of Hypercomplex Crystal Geometry vs. Randers-Ingarden Structures and Fractals*, 26.07–2.08.2008

Scientific topic (among others):

- influence of the Lvov School on generalizations of complex analysis and on general physical ideas.

The Seminars were organized by

1. Thierry Aubin (Paris) 2007
2. Bogdan Bojarski (Warszawa) 2005, 2007, 2008
3. Fray de Landa Castillo Alvarado (México, D.F.) 2007
4. László Kozma (Debrecen) 2008

5. Julian Ławrynowicz (Łódź)
2005, 2007, 2008
6. Stefano Marchiafava (Roma) 2005
7. Efstathios K. Polychroniadis
(Thessaloniki) 2007

8. Yaroslav G. Prytula (Lviv)
2005, 2007, 2008
9. Henryk Puszkarski (Poznań)
2007

The events gathered 90 mathematicians and physicists (and 9 accompanying persons) from 17 countries:

Bulgaria – 3	Italy – 2	Russia – 2
Canada – 1	Japan – 4	Spain – 1
Finland – 3	Lithuania – 1	Sweden – 1
France – 4	Mexico – 10	Turkey –1
Greece – 2	Poland – 28	Ukraine – 19
Hungary – 4	Romania – 4	

The present collection contains three types of contributions inspired by the seminars:
Part I – 6 historical articles,
Part II – 2 short memoirs,
Part III – 3 research papers.

It should be stated that, for a variety of reasons, our initial expectations could be realized up to a modest extent only. The collected material gives a rather restricted and incomplete picture of the unusual and remarkable role which the Lvov Mathematical School played in the history of Polish and Ukrainian mathematics.

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Bogdan Bojarski
Julian Ławrynowicz
Yaroslav G. Prytula

Będlewo, 2nd August 2008

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1. Mathematical Research and Conference Center Będlewo – a group of participants (see the opposite page)

First row (left to right): Lech Maligranda (Luleå), Witold Więsław (Wrocław), Małgorzata Nowak-Kępczyk (Radom), Agnieszka Niemczynowicz (Olsztyn)

Back row (left to right): Heorhiy Sulym (Lviv), Valentin Ibáñez Fernández (Madrid), Bogdan Bojarski (Warszawa), Volodymyr Kamyshlov (Moskva), Jan Woleński (Kraków), Andrzej Schinzel (Warszawa), Magdalena Jaroszewska (Poznań), Pierre Dolbeault (Paris), Yaroslav G. Prytula (Lviv), Halyna Chuĭko (Lviv), Roman Duda (Wrocław), Wiesław Żelazko (Warszawa), Julian Ławrynowicz (Łódź), Yuri Zelinskiĭ (Kyiv), Oksana Sumyk (Lviv), María Elena Luna Elizarrarás (México, D. F.)