

International Conference  
**New perspectives in the theory of function spaces and their applications**  
Mathematical Research and Conference Center Będlewo/Poland  
*September 17-23, 2017*

The aim of the conference is to concentrate on new developments and results in the theory and its applications. The topics we have in mind are:

- new smoothness and regularity concepts,
- high-dimensional approximation and integration,
- approximation of solutions to operator equations,
- existence and regularity of solutions of (non)-linear PDE,
- compactness and concentration phenomena in function spaces,
- function spaces in complexity.

We intend to bring together many young and established scientists from various fields and from countries all over the world to present their latest results, to exchange new ideas and to step forward collaboration. We are glad that the following people accepted our invitation to speak on the conference:

- Marcin Bownik (University of Oregon)
- Monique Dauge (Université de Rennes 1)
- Lars Diening (Universität Osnabrück)
- Jacek Dziubański (Wrocław University)
- Aicke Hinrichs (Johannes Kepler Universität Linz)
- Thomas Kühn (Universität Leipzig)
- Pierre Gilles Lemarié-Rieusset (Université d'Évry)
- Pencho Petrushev (University of South Carolina)
- René L. Schilling (TU Dresden)
- Andreas Seeger (University of Wisconsin, Madison)
- Winfried Sickel (Friedrich-Schiller-Universität Jena)
- Hans Triebel (Friedrich-Schiller-Universität Jena)
- Jan Vybiral (Charles University Prague)
- Dachun Yang (Beijing Normal University)

The conference is co-organised and sponsored by the Stefan Banach International Mathematical Center and the Warsaw Center of Mathematics and Computer Science.

## **1. Lectures**

The programme of the conference consists of invited main lectures (speakers as above) and a limited number of talks and communications given by the participants. Please indicate your intention to give a talk and do not forget to send us your abstract in the (preliminary) registration form! There will be an opportunity for ad hoc-seminars.

## 2. Venue

The Conference will take place in the

### **Mathematical Research and Conference Center Będlewo/Poland**

<https://www.impan.pl/en/activities/bedlewo-conference-center/about-center>

situated in a beautiful countryside not far from Poznań. There you have an airport and direct fast train connections to Berlin, Warsaw and other big cities. We organise a shuttle service from Poznań airport/Poznań main station to the venue.

## 3. Costs

The accommodation is arranged in single and double rooms with full board (*buffet breakfast, lunch and dinner*). The price, including also the conference fee, shuttle service, conference excursion, and conference dinner, is **300 €** per person for the whole week. A reduced price applies according to the type of accommodation (single or double), and to participants who pay **before June 15, 2017**. Details are given in the second announcement.

Please note that the number of places is limited. So we may not yet guarantee that everyone who applies for a single room can have it, because the total number of rooms is restricted.

## 4. Registration

If you are interested please pre-register online **before February 28, 2017**, via

<http://npfsa2017.uni-jena.de/>

The registration will start soon.

The second announcement with further details will be mailed until the end of April 2017.

We hope to see you in Będlewo next year!

### *Organising Committee*

Dorothee D. Haroske (Jena)  
Henning Kempka (Chemnitz)  
Hans-Jürgen Schmeisser (Jena)  
Leszek Skrzypczak (Poznań)  
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### *Scientific Committee*

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Stephan Dahlke (Marburg)  
Anna Kamont (Gdańsk)  
Erich Novak (Jena)  
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