

Homotopy algebras, deformation theory and quantization

Banach Center, Będlewo (POLAND),

16-22 September, 2018

Second Announcement

Aims and scope: The idea of the workshop is to invite mathematicians, mathematical physicists, and physicists working in the areas of homotopy algebras, deformation theory, the theory of operads and props, and quantization, to exchange and share ideas and latest news. The workshop will focus on the highly active field of homotopy algebras, the deformation of higher algebraic structures, the Grothendieck-Teichmüller group, and consequences for other fields in mathematics and physics. We also intend to touch on derived algebraic geometry.

Program: The conference will start with the following introductory courses to lay the grounds for a fruitful interaction between the participants.

- **Giovanni Felder** *Derived representation schemes and supersymmetric gauge theory*
- **Simone Gutt** *Deformation theory and group actions*
- **Sergei Merkulov** *Graph complexes in algebra and geometry - recent advances*
- **Ping Xu** *Dg manifolds, formality theorem and Kontsevich-Shoikhet conjecture*

There will be 8 invited lectures by Martin Bordemann, Kenji Iohara, Andrey Lazaryev, Michael Penkava, Norbert Poncin, Christoph Schwieger, Oleg Sheinmann, Friedrich Wagemann.

The Scientific Committee has chosen 13 contributed talks by Ziemowit Domański, Jill Ecker, Arthemy Kiselev, Satyendra Kumar Mishra, Hany Nasry, Andriy Panasyuk, Safdar Quddus, Marcel Rubió, Leonid Ryvkin, Ripan Saha, Akifumi Sako, Kirill Salmagambetov, Yunhe Sheng. Five of these talks will be delivered during Young Researchers Session. Poster session is also planned. The preliminary schedule is at the end of this message.

The titles of the talks, as well as most of the abstracts, are available at the web page of the conference: <https://www.impan.pl/en/activities/banach-center/conferences/18-homotopy>

Registration: We have reached the number of 56 participants of the conference. Late registrations are still possible. Participants are kindly asked to use the registration form on the page of the conference. The late conference fee is set to 350 EUR which can be paid in cash upon arrival or by bank transfer.

Payment: The conference fee can be paid upon arrival in cash both in Euro (EUR) or in Polish Złoty (PLN). Participants willing to pay by bank transfer are asked to contact the Organizing Committee. The bank transfer details will be sent by e-mail.

Conference place: The Mathematical Research and Conference Center in Będlewo (MRCC) is the conference place of the Banach Center – a part of the Institute of Mathematics of the Polish Academy of Sciences. The main goal of the MRCC is to organize conferences and

workshops devoted to various subjects of mathematics, and to create an atmosphere fostering research in groups. The MRCC serves as a place for scientific meetings supported and/or accepted by the Banach Center, and if space allows, it is also accessible to groups of scientists representing other fields, or individuals looking for a friendly place to do research.

More information about the Conference Center in Będlewo can be found on the web page of the center: <http://www.impan.pl/en/activities/bedlewo-conference-center/about-center>.

Arrival: Będlewo is rather a solitary place, so reaching it by regular communication is quite a challenge. For this reason we kindly ask you to send us your travel information (date, hour and place of arrival - airport, railway station). There will be conference busses waiting for participants at the Poznań airport and at the railway station Poznań Główny on Sunday, September 16. The schedule will be adapted to travel plans of participants and announced approximately a week before conference on the web page of the conference.

For participants travelling alone we recommend taking a taxi from Poznań Airport/ Poznań Główny Railway Station to Będlewo (35 km, approx. 200 PLN=50 EUR). We recommend using the taxi company called "Taxi Express" which cooperates with the Conference Center. You can order the taxi calling the Będlewo Center (+48 61 813 5187). On the web page of the conference there are also directions how to reach the Center using public transport, which is possible, although complicated.

Final remarks: If you are an invited speaker and you have not registered formally using the registration form at the web page of the conference, please do so as soon as possible. During the registration process one can express individual needs as special diet, special needs for lodging, transportation, accompanying persons, etc. All those pieces of information are important for the organizers. We also encourage all speakers and authors of posters who have not sent us abstracts to do so as soon as possible.

In case of any questions please do not hesitate to contact us using the conference e-mail **homotopy2018@impan.pl** or e-mail addresses of individual members of the Organizing Committee.

Looking forward to meeting you in Będlewo,

Katarzyna Grabowska

The conference "*Homotopy algebras, deformation theory and quantization*" is supported by Banach Center, Université du Luxembourg and Institute of Mathematics of the Polish Academy of Sciences.

	MONDAY 17.09	TUESDAY 18.09	WEDNESDAY 19.09	THURSDAY 20.09	FRIDAY 23.09
	morning session	morning session	morning session	morning session	morning session
9:00-10:00	Minicourse – G. Felder	Minicourse – G. Felder	Minicourse – G. Felder	K. Iohara	A. Lazaryev
10:00-11:00	Minicourse – P. Xu	Minicourse – P. Xu	Minicourse – P. Xu	O. Sheinmann	Ch. Schweigert
	<i>Coffee</i>	<i>Coffee</i>	<i>coffee</i>	<i>Coffee</i>	<i>coffee</i>
11:30-12:30	Minicourse – S. Merkulov	Minicourse – S. Gutt	Minicourse – S. Gutt	M. Bordemann	F. Wagemann
	<i>Lunch</i>	<i>lunch</i>	<i>lunch</i>	<i>Lunch</i>	<i>Lunch</i>
	afternoon session	afternoon session	<i>social programme /excursion/free afternoon</i>	afternoon session	Young Researchers Session
15:00-16:00	Minicourse – S. Merkulov	N. Poncin		M. Penkava	J. Ecker
	<i>Coffee</i>	<i>coffee</i>		<i>Coffee</i>	<i>Coffee</i>
16:30-17:00	H. Nasry	Y. Sheng		A. Kiselev	S. Quddus
17:00-17:30	L. Ryvkin	Z. Domański		A. Panasyuk	M. Rubio
17:30-18:00	A. Sako	R. Saha		Poster session	K. Salmagambetov
17:00-18:30					
	<i>dinner: grill, bonfire</i>	<i>dinner</i>		<i>conference dinner</i>	<i>Dinner</i>