Departments

LIST OF DEPARTMENTS AND LABORATORIES AT IMPAN:

Laboratories: (1) Hilbert Spaces, (2) Noncommutative Geometry, (3) Numerical Analysis.

Departments: (1), (4), (6), (7), (8), (9), (10) were presented in the first issue of the IMPAN Newsletter. The department of Biomathematics and the laboratory of Hilbert Space Operators will be presented in the next issue.

Foundations of Mathematics
Head: Zofia Adamowicz (since 1994)


There were many short term members: Teresa Bigorska, Jakub Gismatulin, Aleksander Iwanow, Andrzej Kisielewicz, Krzysztof Krupiński, Marcin Kysiak, Maciej Malicki, Tomasz Nowik, Damian Niwiński, Aleksander Ruktowski, Marcin Sabok, Zenon Sadowski, Agata Smoktunowicz, Mariusz Woźniak, Piotr Zakrzewski.

Now the department consists of: Zofia Adamowicz, Ryszard Frankiewicz, Piotr Koszmider, Henryk Michalewski, Marcin Sabok.

The members of the department have mainly been working in two fields: set theoretic methods in analysis (KBN grants 2P30104307 and 2PO3A 018 13 in 1994–2000) and foundations of arithmetic and computational complexity.


MAIN RECENT PUBLICATIONS:
→ Z. Adamowicz, L. Kołodziejczyk, A note on the $\Sigma_1$ collection scheme and fragments of bounded arithmetic, Mathematical Logic Quarterly 56 (2010), 126–130.
→ K. Zdanowski, H. Kotlarski, On a question of Andreas Weiermann, Mathematical Logic Quaterly 55(2), 2009, 201–211.
The department exists since 1949; its first head was Karol Borsuk. Fundamental achievements include: Founding of theory of retracts and founding of shape theory, by Karol Borsuk. Characterization of infinite-dimensional manifolds modelled on Hilbert cube or Banach space, by Henryk Toruńczyk. Theory of simplicial non-positive curvature, by Tadeusz Januszkiewicz and Jacek Świątkowski.

The Department has currently 7 full time employees: Professors Tadeusz Januszkiewicz, Zbigniew Jelonek, Józef Krasinkiewicz, Stanisław Spież and Drs Michał Lasoń, Piotr Nowak, Piotr Przytycki; 2 part time employees Dr. Robert Dryło and Prof. Henryk Toruńczyk and 6 Ph. D. students: Z. Ambroży, M. Farnik, A. Kwela, J. Maksymiuk, J. Przewocki, K. Strzałkowski.

Topics of current research include:
1. Polynomial maps: fixed points of automorphisms of $k^n$, affine manifolds.
2. Cryptography: constructions of special Abelian manifolds, Jacobians of curves of genus 2 and cryptographic protocols.
3. Compact metric spaces, embeddings in the same dimension.
4. Game theory and related topological questions.
5. Fixed point properties for continua.
6. Spaces with non-positive curvature, cube complexes, Coxeter groups.
7. 3-manifolds: linearity and separability.

SELECTED RECENT PUBLICATIONS:
The department was established shortly after the creation of the Institute in 1948. His first head was Tadeusz Ważewski followed, after his death in early 70-ties, by Andrzej Pliś and then by Bogdan Ziemian. Current permanent employees of the department are professors Stanisław Janeczko, Grzegorz Łysik, Guillaume Valette, Wojciech Zajączkowski, long term employees are doctors Tomasz Cieślak, Wojciech Kryński, Joanna Rencławowicz (on leave) and short term employees are dr Bernard Nowakowski, Aneta Wróblewska-Kamińska, Jan Burczak (Phd student) and Piotr Kowalski (Phd student). Professors emeriti, active in the Institute, are: Bogdan Bojarski, Jan Kisyński and Czesław Olech.

The main areas of current research include:

- Nonlinear partial differential equations, with special emphasis on Navier-Stokes equations and equations of magneto-hydro-dynamics
- Geometric control theory and non-holonomic geometry
- Singularities in differential equations and symplectic geometry
- Analytic methods and summability of formal solutions

The department runs four weekly seminars:
1. Geometry and Differential Equations (B. Jakubczyk)
2. Partial Differential Equations (W. Zajączkowski and T. Cieślak)
3. Singularity Theory (S. Janeczko)

SELECTED RECENT PUBLICATIONS:

- J.P. Gauthier, B. Jakubczyk and V. Zakalyukin, Motion planning and fastly oscillating controls, SIAM J. on Control and Optimiz., Vol. 48 (2010), 3433–3448.
Noncommutative geometry entered the research programme of IMPAN in 1999. Five years later, with the help of the EU Transfer of Knowledge grant “Quantum Geometry”, held at the University of Warsaw and IMPAN, this branch of IMPAN’s mathematics gained an international dimension. Since 2004, there are about 10–20 visitors per year who contribute their research experience and give talks at the weekly Noncommutative Geometry Seminar held in the Institute. Among our invitees were Alain Connes and Maxim Kontsevitch, and the seminar talks are announced to about 200 mathematicians worldwide.

The aforementioned scientific activity helped to crystallize a local research team consisting of Piotr M. Hajac, Ulrich Krähmer, Tomasz Maszczyk and Bartosz Zielinski. Ulrich Krähmer was a Marie Curie fellow in the years 2005–2007. In January 2008, the Noncommutative Geometry Research Unit was formally created at the Institute. In October 2008, the team was enlarged by Emily Burgunder, who chose IMPAN for her European Postdoctoral Institute fellowship.

Another chapter of Noncommutative Geometry at IMPAN opened in 2009 with the EU project Geometry and Symmetry of Quantum Spaces. Co-sponsored by the Polish Government, this 4-year international research staff exchange programme established a transcontinental network of 12 nodes with IMPAN as the coordinating node. In particular, we welcomed in our group Paul F. Baum who joined us as a Visiting Professor working at IMPAN a month each year. Our mathematical environment was further enriched by Adam Skalski who came as another Marie Curie Postdoctoral Fellow for the years 2010–2012. Together with Pawel Kasprzak, Andrzej Sitarz, and Piotr M. Sołtan employed on short-term position, our Research Unit got top expertise in topological quantum groups and spectral geometry. On the other hand, a Ph.D.-student Jan Rudnik started his collaboration with Baum and Hajac on computing the K-theory of triple-pullback C*-algebras.

The key words characterizing IMPAN’s research in noncommutative geometry are: K-theory of operator algebras and free actions of compact quantum groups on unital C*-algebras, multi-pullback C*-algebras and free distributive lattices of ideals, index theory of Fredholm modules and spectral geometry of Dirac operators, locally compact quantum groups and universal (free) quantum groups, Hopf-cyclic homology with coefficients and Chern-Galois character, corings and monoidal categories.

The assumed research strategy is to explore the feedback between solving concrete difficult problems and developing new mathematical structures. The proposed approach is to unite rather than separate different fields of mathematics by taking advantage of complementary tools that they offer. To this end, a large scale and intensive international collaboration is currently sustained and planned for the future.

SELECTED PUBLICATIONS:
This laboratory has been existing since 1973, when it replaced the Section of Numerical and Graphic Analysis. The laboratory was chaired by dr Andrzej Wakulicz till 2004.

The main areas of research are: numerical analysis in abstract spaces, ill-posed problems and regularization methods, inverse problems for partial differential equations.


The traditional Seminar on Numerical Analysis organized by the laboratory during the last 40 years covered a wide scope of numerical methods and attracted attention of mathematicians from other institutes.

SELECTED RECENT PUBLICATIONS:

NEWLY EMPLOYED
1. Tomasz Komorowski: full professor, permanent position; differential equations and stochastic processes.
2. Guillaume Valette: 7-years associate professor (joint with Jagiellonian University); real algebraic geometry, singularities.
3. Adam Skalski: 7 years adiunkt position (joint with University of Warsaw); operators, quantum groups.
4. Adam Bobrowski: full professor, 1 year; operator semigroups, applications in biology.
5. Weronika Buczyńska: 3-years adiunkt positions; algebraic geometry.
6. Karol Palka: 3-years adiunkt positions; algebraic geometry.

Seven 1–2 years postdoc positions:
- Balázs Bárány (dynamical systems),
- Piotr Frąckiewicz (mathematical physics),
- Mateusz Michałek, Michał Lasoń (algebra, algebraic geometry, combinatorics),
- Bernard Nowakowski, Aneta Wróblewska-Kamińska (partial differential equations),
- Piotr Żebrowski (probability theory).
Stefan Banach International Mathematical Center was created in 1972 as a part of the Institute of Mathematics of the Polish Academy of Sciences. It was a visionary idea of Polish mathematicians to establish strong research bridge between mathematicians from Central and Eastern Europe and the rest of the world.

The founding agreement for the Center and its Scientific Council was signed by the Academies of Sciences of Poland, Bulgaria, Czechoslovakia, German Democratic Republic, Hungary, Romania, and USSR. Later the Academies of Vietnam (1979), Cuba (1984) and North Korea (1986) joined the agreement.

First twenty years of its activity (1972–1992) brought the world-wide recognition as a real Center of collaboration for mathematicians from all over the world. During these twenty years there were forty semesters organized. They were very successful and covered practically all branches of mathematics with significant contribution to the development of the respective field.

In 1993 the agreement between the Academies was terminated and the new Letter of Intent on Cooperation was signed with the European Mathematical Society adding new perspectives and forms of activity to the Center, including intensive workshops and symposia, conferences and research groups. A special emphasis was laid on the interaction of different fields of mathematics and on multi-disciplinary and interdisciplinary meetings. The specific aims of this agreement (with EMS) are to cooperate in planning and promoting the various scientific activities held at the Banach Center; in encouraging scientific exchange and visits at the Center; stimulating and promoting international scientific cooperation in mathematics and in assisting the Banach Center in its efforts to secure the material means for all activities.

Both organizations agreed that having an international Scientific Council of the Banach Center is necessary to achieve these aims successfully. Its purpose is to promote, determine, consider and approve the scientific activity of the Center. Every year the scientific program of the Banach Center is approved by its Scientific Council by means of evaluating applications for organization the conferences and workshops.

From 1972 till 1993 the Scientific Council was constituted by two representatives of each signatory academy of sciences and the director of the Center. Since 1993, the Council consists of no more than ten members, each serving for no more than two terms. These are three representatives from EMS, three representatives from the countries that are the founders of the Center (which are currently Czech Republic, Hungary and Russia); and four representatives from Poland. The members elect the Chairwomen/Chairmen from among themselves. Former chairmen of the Scientific Council were:

- Lubomir Iliev (Bulgaria) 1972–1976
- Ákos Császár (Hungary) 1977–1980
- Klaus Matthes (East Germany) 1981–1982
- Kazimierz Urbanik (Poland) 1983–1986
- Romulus Cristescu (Romania) 1987–1989
- Sergei M. Nikolskii (USSR) 1990–1992
- Friedrich Hirzebruch (Germany) 1993–2001
- Rolf Jeltsch (Switzerland) 2002–2005

A part of the research achievements of the Banach Center have been recorded in the Banach Center Publications series. It is a series of proceedings containing research, survey and expository articles. Already ninety eight volumes were published in the series [1].

Till 2001 the Banach Center was located in an old baroque building at Mokotowska street in Warsaw. In 2001 the building was returned to the previous owners and consequently the Banach Center moved to the premises of the Institute of Mathematics of the Polish Academy of Sciences situated at 8 Śniadeckich street.
In 1997, the Institute of Mathematics acquired a ne-gothic palace together with a park in Będlewo near Poznań and built facilities for future mathematical conference center there. Since 2001 Będlewo Palace serves as a principal space of an activity for the Banach Center, where larger scientific events such as conferences and big workshops are organized. The premises of the Conference venue can host up to 140 persons in 80 guest rooms: 24 single rooms, 44 double rooms and 12 apartments, all of which are equipped with bathrooms, radio as well as free Wireless Internet connection. There are four fully equipped conference rooms available: for 40, 60, 120 and 150 participants.

Smaller events, such as workshops, research groups, seminars and advanced lecture series are usually organized in Warsaw, on the fourth and third floors of the building at Śniadeckich Street, making use of two main auditorium halls, seminar rooms, small cafeteria and the Banach Center Office. Eighteen small studios situated on the fifth and sixth floor of the building serve as guest rooms for the participants of the Banach Center events.

The basic forms of activity of the Banach Center are semesters or so-called mini-semesters devoted to various subjects of mathematics and its applications; conferences, workshops, research groups, i.e. meetings of small groups of researchers working on a particular scientific problem, topical forums (regular conferences devoted to specialized subjects generally organized every two years), Banach Center Colloquia (lectures by leading specialists), special condensed courses for PhD students by renowned specialists.

Recently Banach Center is organizing approx. 25 conferences and workshops per year. The information on how to apply for the scientific meetings with the support of the Banach Center is available at http://www.impan.pl/BC/apply.html

The scientific director of the Institute in charge of the Banach Center is Stanisław Janeczko. He is in charge of the scientific events sponsored by the Banach Center which take place at Będlewo Conference Center. The person in charge of the Będlewo Conference Center is the scientific director of the Institute Łukasz Stettner.

For details concerning organization of mathematical scientific meetings, please contact Banach Center Office: tel: +48 22 5228 232, Banach.Center@impan.pl

For details concerning organization of other meetings, please contact directly with Mr. Sławomir Malecha, administrative manager of the Conference Center: tel.: +48 61 813 5187, bedlewo@impan.pl

Twenty four European mathematical centers are organized into the consortium: European Research Centers on Mathematics (ERCOM). Banach Center, being one of the oldest mathematical centers in Europe, is an active member of ERCOM since the very beginning of its existence in 1997, and is one of ten members of the European Postdoctoral Institute in Mathematics.

1. More information on the Banach Center Publications is available on the website: http://journals.impan.gov.pl/bc/
Members of Scientific Council for the 2010–2013:

↑ Grzegorz Banaszak (Poland)
↑ Zbigniew Błocki (Poland)
↑ Stanisław Janeczko (Poland)
↑ Ari Laptev (Sweden)
↑ Péter Pál Pálfy (Hungary)

↑ Olga Rossi (Czech Republic)
↑ Marta Sanz-Solé (Spain)
↑ Dmitry V. Treschev (Russia)
↑ Jouko Väänänen (Finland)
↑ Przemysław Wojtaszczyk (Poland)

↑ ERCOM members.
Special scientific session commemorating 80th anniversary of prof. Andrzej Lasota

On January 13th, 2012 Mathematical Center for Science and Technology of IMPAN, jointly with Faculty of Mathematics, Physics and Chemistry of Silesian University organized 5th jubilee lecture and a special session commemorating 80th anniversary of prof. Andrzej Lasota (1932–2006).

The jubilee lecture entitled Functional Analysis and Nonlinear Boundary Value Problems: The Legacy of Andrzej Lasota was delivered by prof. Jean Mawhin (Université Catholique de Louvain).

In the above session contributions of prof. A. Lasota were presented by professors: Józef Myjak, Ryszard Rudnicki and Tomasz Szarek. The meeting gathered strong representation of the officials of the Silesian University, including deputy rector, dean of the Faculty and directors of the Institutes of Mathematics, Physics and Chemistry.

Andrzej Lasota (1932–2006) Professor, Ordinary Member of Polish Academy of Sciences, Full Member of Polish Academy of Arts and Sciences (PAU). He studied at the Jagiellonian University, made PhD under supervision of Tadeusz Wazewski in 1960 at IMPAN and habilitation in 1964 at the Jagiellonian University. He worked there in the years 1953–1976 and 1988–2005. He was the Dean of the Mathematics, Physics and Chemistry Department there in 1972–1975. Since 1976 till his death he worked (except in 1986–1988) at the Silesian University in Katowice, where he founded the Biomathematics Laboratory. For periods of time he worked also at Marie Skłodowska-Curie University in Lublin and at IMPAN. He promoted 21 PhD students. His most famous books and articles include:

Scientific Session in honour of Friedrich Hirzebruch on the occasion of his 85th birthday

On May 18, 2012 at the Institute of Mathematics of the Polish Academy of Sciences in Warsaw there was organized a special scientific session in honour of Friedrich Hirzebruch [1] on the occasion of his 85th birthday.

Professor Friedrich Hirzebruch, director of the Max-Planck-Institute of Mathematics in Bonn, former President (first President) of European Mathematical Society, played an important role not only in the area of mathematics, but he also made a special contribution to the Banach Center while being the chair of its Scientific Council in the period of 1993–2001, when the political image of Europe was changing.

The Organisers of the session, Stanisław Janeczko and Tadeusz Januszkiewicz, scholars of the Max Planck Institute in Bonn and Professor Hirzebruch’s students, wanted to take this occasion to recall and thank him for his personal involvement in securing the conditions and activity of the Banach Center.

Professor Hirzebruch could not unfortunately participate in the above session. However he sent to the organizers of the session video-lecture entitled The shape of planar algebraic curves defined over the reals – application of the Atiyah-Bott-Singer fixed point theorem he intended to give during the session. His son – Michael with wife came to the session as Prof. Hirzebruch’s ambassadors. They read a letter written by Prof. Hirzebruch with a message to the participants of the scientific session.

During the scientific session, in which also the members of the Scientific Council of the Banach Center participated, 4 lectures made by the scholars of the Max Planck Institute were given:

- Adrian Langer, On the Grothendieck-Katz conjecture
- Zbigniew Blocki, Hörmander’s estimate, Suita conjecture and the Ohsawa-Takegoshi extension theorem
- Jarosław Wiśniewski, Another view on Cox rings: Jaczewski’s theorem revisited
- Jarosław Kędra, Gromov-Witten invariants of the Kodaira-Thurston manifold.

May 16, 2012

Dear friends and colleagues,

Since quite some time my wife Inga and I looked forward to this conference. Today, May 18, was planned to be a special day for me. Two unfortunate incidents with details too complicated to tell, allowed us to come to Warsaw. I was very sad. Our son Michael and his wife Anne had planned to accompany us. Now they are coming alone in our ambulances to be near the hospital and take care of our sick mother. The medical team in the Banach Center always enjoyed the good cooperation with the Mathematische Gesellschaft in Bonn and all the members of the scientific committee closely connected with the European Mathematical Society. Founded in 1950 in Poland, the society marks a new era for the European Mathematical Society.

Friedrich Hirzebruch, 1927-2012

During all these years before and during the meeting, Inga and I often visited the Banach Center. Some of them Polish friends, some of them Polish Institute for Advanced Study, some of them Polish Institute for Advanced Study in Warsaw. I had the opportunity to meet many young Polish and German mathematicians.

May 18, 2012

Regrets and greetings from

Fritz and Inga Hirzebruch

1. Professor Friedrich Hirzebruch passed away a few days after the scientific session.
Trends in Set Theory
08–11 July, 2012 | Warsaw

The conference took place in the days 8–11 of July, 2012 at the Institute of Mathematics of the Polish Academy of Sciences in Warsaw and focused on the interactions between set theory and other parts of mathematics, from Banach spaces and C*-algebras to topological groups, sets of the reals, general topological spaces, and others. This included both the advances concerning appropriate set-theoretic tools from forcing theory, Ramsey theory, descriptive set theory and other branches of set theory, as well as concrete applications of these methods in the mathematical practice.

The scientific committee of the conference consisted of: Piotr Koszmider (chair), Grzegorz Plebanek, Janusz Pawlikowski, Marcin Sabok and Slawomir Solecki. The conference had the official status of the satellite event to the 6th European Congress of Mathematics held in Cracow, Poland in the days 1–7 of July 2012.

Three leading set-theorists: A. Kechris, S. Shelah and S. Todorcevic were among the main speakers of the Congress in Cracow and agreed to come to Warsaw’s conference. This attracted many other mathematicians to participate both in our conference and the Congress.

INVITED SPEAKERS OF THE CONFERENCE WERE:
A. Aviles (Murcia), J. Brendle (Kobe), M. Dzamonja (UEA Norwich), M. Elekes (Renyi Institute), S. Geschke (Hausdorff Center), M. Hrusak (UNAM Morelia), A. Kechris (Caltech), W. Kubis (AVCR and UJK Kielce), J. Lopez-Abad (ICMAT Madrid), S. Shelah (Jerusalem and Rutgers), S. Solecki (Urbana-Champaign), L. Nguyen Van The; (Aix-Marseille), S. Thomas (Rutgers), S. Todorcevic (CNRS and Toronto), T. Tsankov; (Paris 7), B. Velckovic (Paris 7), P. Zakrzewski (Warszawa), J. Zapletal (AVCR and Gainesville).

The organizers of the conference received financial contribution from the European Science Foundation, Institute of Mathematics of the Polish Academy of Sciences and from University of Wroclaw.

SCIENTIFIC CONTENT OF THE EVENT INCLUDED:
→ Set Theory of the Real Line
→ Descriptive Set Theory in Polish Groups
→ Combinatorial Set Theory in Banach Spaces
→ Set-theoretic Topology
→ Algebra an Set Theory
→ Developing Set-theoretic Tools
→ Problem session

The idea of the conference as focused on applications of set theory in diverse mathematical disciplines was quite original and created a new environment for interactions and the exchange of ideas. There were two leading combinatorial set-theorists: Saharon Shelah and Stevo Todorcevic, and a leading Descriptive set-theorist- Alexander Kechris. Internationally leading mathematicians also included S. Solecki and S. Thomas. On the other hand, half of the participants were young mathematicians. This created quite dynamic interaction, which must have inspired many young participants. The organizers also hope that young mathematicians’ lesson from this conference is that applying set theory in other fields of mathematics is at least as exciting as creating a new set theory. Of course many discussions from the conference will result in publications and new scientific results. Although this scientific gathering was diverse, participants spoke the same language of the set theory. Deep impact of the event is expected by its organizers.
41st Polish Conference on Applications of Mathematics

The 41st Polish Conference on Applications of Mathematics was held at Zakopane–Kościelisko at the foot of the Tatra Mountains on September 4–11th, 2012. The conference gathered over 120 specialists of various applications of mathematics. The Conference started with a special lecture devoted to the secrets of Enigma delivered by prof. A. Orlowski.

Among various longer lectures one should point out these concerning investments under uncertainty, measures of risk, control, geometry and space missions, metrics on the family of convex sets and collisionless kinetic equations. There was also a special session commemorating prof. Ryszard Zielinski organized, who passed away at the end of April this year. His former PhD students: prof. W. Niemiro, M. Męczarski, A. Boratyńska and T. Rychlik presented a wide spread of contributions and scientific interests of prof. Zielinski.

During the conference we had an open meeting of the Subcommittee on Applications of Mathematics of the Committee of Mathematics of the Polish Academy of Sciences devoted to various aspects of applications of mathematics in Poland. The presentations and letters concerning the discussion on this topic are available at the website: http://www.impan.pl/CZM/komisja.html

The participants of the conference had also an opportunity to listen to prof. Tadeusz Trzaskalik (piano) musical performance with accompaniment of violin, violon cello and a soprano singer.

IMPAN PRIZES

Dr Mateusz Kwaśnicki is Kuratowski Award winner in 2012. He is awarded for outstanding results in potential theory of Lévy processes.

Mateusz Kwaśnicki works as an assistant professor (adiunkt) at the Wroclaw University of Technology. In 2010-2012 he also held a temporary position at IMPAN. He made PhD entitled “Potential theory of fractional powers of Laplace operator” in 2008, under supervision of Tadeusz Kulczycki.

Kuratowski Award was established in 1981 by the daughter of professor Kazimierz Kuratowski, professor Zofia Kuratowska. It is awarded yearly for mathematicians under 30 years old, by the Institute of Mathematics of Polish Academy of Sciences and Polish Mathematical Society.
## Banach Center Upcoming Events 2013

For more information, please check out: [http://www.impan.pl/BC/Program/2013.html](http://www.impan.pl/BC/Program/2013.html)

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<td>5. Advances in Mathematics of Finance. 6th General AMaMeF and Banach Center Conference</td>
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Ryszard Zieliński (01.07.1932–30.04.2012) He was graduated from Warsaw University of Economics in 1955. In 1961 he made PhD under supervision of prof. Wiesław Sadowski. In 1963 he was graduated from Faculty of Mathematics at the Warsaw University. Since 1961 he has been working in IMPAN. In 1976 he defended habilitation at IMPAN entitled “Global stochastic approximation”. In 1988 he received the title of professor of mathematics. Ryszard Zieliński worked at the area of mathematical statistics and he was leading Polish statistician. He was interested in particular in Monte Carlo methods, robustness, stochastic approximation and nonparametric inference. He is the author of about 80 research papers, 16 books, 7 translations and many other publications. He supervised 14 PhD theses. He served as Editor of Applicationes Mathematicae in 1992–1999, and as a member of the Editorial Committee of the journal afterwards.

Danuta Przeworska-Rolewicz (31.05.1931–23.06.2012) She worked at IMPAN since 1960 till 2011, at the Analysis Department and recently at the Mathematical Physics and Differential Geometry Department. She studied at the University of Warsaw and made there PhD in 1960 under supervision of Witold Pogorzelski, entitled “On systems of strongly singular integral equations”. Since 60-ties her main area of research were algebraic methods in analysis. In 1964 she made habilitation entitled “Équations avec operations algébriques”. In 1974 she received the title of professor mathematics. In 1969 she received Stefan Banach award of the Polish Mathematical Society for outstanding results in mathematics (joint with Stefan Rolewicz) and several other awards. She published more than 160 scientific papers, 50 other publications, 7 monographs (edited in Poland, the Netherlands and England) and 4 text-books. She promoted 9 PhD students.


AMaMeF is a succesfull network called Advanced Mathematical Methods for Finance, which in 2005–2010 was financed by ESF. The Steering Committee of the network consists of the representatives of Belgium, England, Finland, France, Germany, Italy, Netherlands, Norway, Poland, Romania, Sweden, Switzerland and Turkey. The network organizes conferences, workshops and seminars. The Second General AMaMeF Conference (jointly with Banach Center Conference) was organized in April 30th–May 5th, 2007 in Będlewo. The selected contributions of the conference were published in 83rd volume of the Banach Center Publications.

Upcoming sixth General Conference will be organized again in Poland for the period of June 10th–15th, 2013 in the building of the old library of the University of Warsaw. The Conference will be organized by Banach Center together with the Faculty of Mathematics, Informatics and Mechanics of the University of Warsaw under honorary patronage of the Rector of the University of Warsaw.

The website of the conference is available at: http://bcc.impan.pl/6AMaMeF/
THE INSTITUTE IS THE PUBLISHER OF THE FOLLOWING JOURNALS:

(Web: http://journals.impan.gov.pl/)

→ Acta Arithmetica (founded in 1936)
Number theory

→ Annales Polonici Mathematici (founded in 1954)
Mathematical analysis, differential equations, geometry

→ Applicationes Mathematicae (founded in 1953)
Applications of mathematics, especially mathematical modeling, optimization, probability and statistics, mathematics of finance, numerical methods

→ Bulletin of Polish Academy of Sciences Math (founded in 2004, continuation of the series published by PAN, founded in 1953)
Short research papers in all areas of mathematics

→ Colloquium Mathematicum (founded in 1948)
Research and survey papers in all areas of mathematics

→ Dissertationes Mathematicae (founded in 1952)
Small monographs in all areas of mathematics

→ Fundamenta Mathematicae (founded in 1920)
Set theory, mathematical logic and foundations of mathematics, topology, algebra, dynamical systems

→ Studia Mathematicae (founded in 1929)
Functional analysis, abstract methods of mathematical analysis, probability theory

→ Banach Center Publications (founded in 1976)
Proceedings of selected conferences and semesters held at the International Stefan Banach Mathematical Center. Each volume has its particular editors, in general from among the organizers of the given conference or semester.

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