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ANNIVERSARY

ON THE 80TH ANNIVERSARY OF ACADEMICIAN PETAR POPIVANOV

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Academician Petar Radoev Popivanov was born on 06.04.1946 in Sofia, into a family of prominent contributors to Bulgarian independence and builders of the Third Bulgarian state. Petar Popivanov's father is Academician Radoy Popivanov, who was a student of the prominent Bulgarian biologist Academician Metodi Popov and was the long-time head of the Department of General Biology at the Medical Academy - Sofia, director of the Institute of Biomedical Problems and Minister of Health from 1977 to 1988.

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Since his young years, Petar Popivanov has shown a serious interest in mathematics, participated in and won mathematical competitions and Olympiads. His first publication was in the journal "Mathematics" in 1963, before graduating from secondary education with excellent grades and a gold medal. Following his interests, Petar Popivanov became a student at the Faculty of Mathematics and Mechanics at Sofia University. There, Petar Popivanov orientated himself towards the field of partial differential equations and defended a thesis on non-elliptic boundary value problems. In 1969, Popivanov graduated from the University and started working at the Mathematical Institute of the Bulgarian Academy of Sciences. In 1970, Petar Popivanov became part of the famous mathematical school of the Moscow State University. In 1973, Popivanov defended his dissertation for the degree of "Candidate of Mathematical Sciences" on the topic "On the Local Solvability of Pseudodifferential Operators with Simple and Double Characteristics". After defending his dissertation, he returned to Bulgaria and worked at the Institute of Mathematics and Informatics at the Bulgarian Academy of Sciences, where in 1979 he was elected as a senior research associate, second degree (associate professor), in 1986 he defended his dissertation for the scientific degree of "Doctor of Mathematical Sciences", and in 1988 he was elected as a professor. Since 1989, Professor Popivanov has been the head of the Differential Equations Section of the Institute of Mathematics and Informatics. In 1995, Petar Popivanov was elected as a corresponding member of the Bulgarian Academy of Sciences, and in 2003 he was elected as an academician.

The scientific activity of Academician Petar Popivanov is in the field of partial differential equations, which are used to model many processes in physics, chemistry, biology, medicine, economics, epidemiology, sociology, etc. For about 50 years, Academician Popivanov has been actively involved in mathematical life with his numerous scientific publications, participation in conferences, seminars, joint work with other colleagues, graduate students and doctoral students. His scientific publications are over 200 and are in the areas of linear and nonlinear microlocal analysis; non-elliptic boundary value problems; global solvability and hypoellipticity of partial differential equations on compact manifolds; nonlinear hyperbolic equations with degeneracies and applications in mechanics and geometry. The results obtained in these areas have been published in numerous authoritative scientific journals and have been cited many times.

Academician Petar Popivanov also has extensive pedagogical activity. For over 20 years, he has been teaching ordinary and partial differential equations at the Faculty of Mathematics and Informatics of Sofia University "St. Kliment Ohridski" and for over 10 years he has been teaching a course on ordinary and partial differential equations at the Southwestern University in Blagoevgrad. In addition, Academician Popivanov has taught numerous special courses in the field of differential equations

and their applications and has supervised numerous graduate and doctoral students, two of whom are professors - in France and Italy.

Academician Petar Popivanov's expert activity is also extensive. He is a member of the editorial board of the "Journal of Partial Differential Equations and Applications" (Birkhauser), and for 15 years he was a member of the editorial board of "Annali di Ferrara". Academician Popivanov has been a reviewer of dozens of dissertations, habilitations and professorships in Bulgaria, Italy and France. He is a long-time member of the editorial board of the journal Proceedings of the Bulgarian Academy of Sciences, and editor-in-chief of the Pliska series. He was a member of the General Assembly of the Bulgarian Academy of Sciences, a member of the Management Board of the Bulgarian Academy of Sciences from 2004 to 2013, Chairman of the Scientific Council of the Institute of Mathematics and Informatics of the Bulgarian Academy of Sciences from 1985 to 2008, Head of the Differential Equations Section of the Institute from 1989 to 2011, Secretary and Deputy Chairman of the Department of Natural and Mathematical Sciences of the Assembly of Academicians and Corresponding Members of the Bulgarian Academy of Sciences. Academician Popivanov is a member of the Union of Mathematicians in Bulgaria, the American Mathematical Society (since 1985), and the Union of Scientists in Bulgaria (since 1975). Petar Popivanov is a member of the Presidium and Chairman of the Mathematics Section of the Union of Scientists in Bulgaria (from 1998 to 2004), a member of the Specialized Scientific Council on Mathematics of the Higher Attestation Commission and its Deputy Chairman, a member, Deputy Chairman and Chairman of the Scientific-Expert Commission on Mathematical Sciences of the Higher Attestation Commission, a member of the editorial board of the magazine Nauka, a member of the Commission for High Scientific Achievements of the Union of Scientists in Bulgaria and is an awardee with the Jubilee Diploma of the Union of Scientists in 2014.

Academician Petar Popivanov is a member of the Bulgarian Dostoevsky Society. He is one of the greatest experts on Dostoevsky's work in our country. Academician Peter Popivanov id Doctor Honoris Causa of the University of Rousse, Bulgaria. Academician Peter Popivanov is a Doctor Honoris Causa of the Angel Kanchev University of Rousse, holder of the honorary badge of the Bulgarian Academy of Sciences for its 60th anniversary, of the highest awards of the Bulgarian Academy of Sciences - the Marin Drinov Honorary Badge on a Ribbon for its 65th anniversary, of the distinctive badge of the President of the Bulgarian Academy of Sciences for its 70th anniversary. He is also a holder of the distinctions of the Institute of Mathematics and Informatics of the Bulgarian Academy of Sciences.

Academician Petar Popivanov is a friend of the society of researchers in the area of mechanics, theory of nonlinear waves and mathematical social dynamics. We wish him good health and many new successes in research and in life.

SELECTED MONOGRAPHS PUBLISHED BY ACADEMICIAN PETAR POPIVANOV

1. The degenerate oblique derivative problem for elliptic and parabolic equations, Akademie Verlag, Berlin, 1997 (with D. Palagachev)

2. Partial differential equations, Approximate solutions in scales of functional spaces, Wiley – VCH, 2000 (with T. Gramchev)

3. Geometrical methods for solving of fully nonlinear PDE, UBM edition, Sofia, 2006

4. Nonlinear waves. An introduction, World Scientific 2012 (with A. Slavova, translated into Japanese by Kyoritsu Shuppan Co., Ltd., Tokyo, Japan, 2013)

5. Nonlinear waves. A geometrical approach, World Scientific 2012 (with A. Slavova)

The 2012 monograph, mentioned above in the text and written jointly with Prof. A. Slavova, was awarded in the competition for high scientific achievements of the Union of Scientists in Bulgaria in 2012.