

REPORT OF THE SEMINAR

Day 1: 23rd November, 2019

The Two-Day National Seminar on “Analytical Aspects of Dynamics” (NSAAD) under the aegis of the Silver Jubilee Celebration of the International Academy of Physical Sciences (IAPS) was organized by the Department of Mathematics, Central University of Himachal Pradesh (CUHP) and began on November 22, 2019, at 10:15 AM (venue: Conference Hall, CUHP, TAB, Shahpur) with Sanskrit chants by Dr. Khushbu Srivastava, DST-Women Scientist, followed by the welcome address by Prof. Rakesh Kumar, convener, NSAAD 2019

The chief guest of the inaugural session was Prof. Som Datt Sharma from the Central University of Jammu. In his keynote address, the Chief Guest stressed the importance of mathematics in other branches of science, including physics, chemistry, music, and engineering. He also noted that this kind of gathering serves important purposes, such as attracting younger students to the fields of research and allowing interactions between researchers from different fields of study, paving the way for interdisciplinary research.



The inaugural session was also addressed by Prof. B.C. Chauhan, Dean, School of Physical and Material Sciences, and Guest of Honor Prof. M.K. Sexana, followed by the Presidential Address by Prof. Baldev Bhai Sharma. They also welcomed the participants and expressed hope that this seminar would lead to fruitful contributions to the field of science.

The Pre-Lunch Technical Session i.e., Plenary Session-I, of the Seminar, started at 11:30 AM and continued till 2:00 PM, in which lectures on specialized topics were delivered by Prof. S. D. Sharma, Central University of Jammu, on “Functional Analysis on Hardy-Bergmann spaces”, Dr. A. Prakash, NIT Kurukshetra, on “applications of the newly developed Fractional Calculus in Engineering”,

Dr. K. Srivastava, DST-Women Scientist, CUHP, on “Paracontact Geometry” and Dr. J. Kumar, CUHP, on “High temperature Superconductivity” were delivered. Plenary Session-I was chaired by Dr. T. R. Sharma, HPURC.

The Post-Lunch Technical Session, i.e., Plenary Session-II, of the Seminar started at 2:30 PM and continued till 4:00 PM, in which talks on “Gamma Semirings” by Dr. T. R. Sharma, HPURC, “Black Hole Entropy” by Dr. A. Chatterjee, CUHP, and “Data Mining” by Prof. S. Gour, JEC, Jaipur, were delivered. Plenary Session-II was chaired by Dr. Amit Prakash, NIT Kurukshetra.

After the Plenary Session-II, Paper Presentation I took place in the Conference Hall, chaired by Dr. R. K. Singh, CUHP. This paper presentation session started at 4:00 PM and continued till 6:30 PM. In total, 15 papers were presented in this session.

DAY 2: 23rd NOVEMBER, 2019

The Pre-Lunch Technical Session, i.e., Plenary Session-III, of the Seminar, started at 9:00 AM and continued till 11:00 AM, in which lectures of Dr Shankhadeep Chakraborty, IIT, Ropar, on “Tensionless String Theory” and Dr Sourav Bhattacharya, IIT, Ropar, on “Aspects of Black Hole Physics in De Sitter Spacetime” were delivered. Plenary Session III was chaired by Dr. A. Chatterjee, CUHP.

During Plenary Session-IV (11:15 AM–12:15 PM), Dr. Amit Mahajan, NIT Delhi, delivered a talk on “Hydrodynamic stability by energy method”. This session was chaired by Prof. Rakesh Kumar, Convenor, NSAAD 2019. After Plenary Session-V, Dr. T. R. Sharma delivered the keynote speech (12:15 PM–1:30 PM) on the theme of the seminar and highlighted the significance of algebraic dynamics and dynamical systems in cell biology.

The Post-Lunch Paper Presentation-II (2:00 PM–4:00 PM) was chaired by Dr. K. Srivastava, DST-Women Scientist, CUHP. In total, 11 papers were presented in this session.

During the Valedictory Session of the Seminar, Dr. S. K. Srivastava, Organizing Secretary, NSAAD 2019, presented a detailed report of the Seminar. Prof. H.R. Sharma, Hon'ble Pro Vice Chancellor, CUHP, was the Chief Guest of this Session. Prof. Sharma appreciated the department for taking the initiative to organize the first national seminar and highlighted the importance of mathematics in economics.

The distinguished guest, Dr. Raj Kumar Upadhyay Mani, Head, Department of Hindi, CUHP, spoke about the interrelationship of mathematics with literature.

The best paper and best presentation certificates were given to Mr. Arief, Department of Mathematics, CU Jammu, and Mr. Tapender Singh, Department of Physics, CUHP respectively.

Prof. S.D. Sharma has chaired this session, and Prof. Rakesh Kumar, convenor, NSAAD 2019, has proposed a vote of thanks to all participants, including invited speakers, guests, faculty members, supporting staff, and students, for their active participation in the

seminar. Prof. Rakesh Kumar expressed his gratitude towards Canara Bank, Kotwali Bazar, Dharamshala for sponsoring the event.

During the seminar, 12 lectures were delivered, and a total of 26 research papers were presented. Researchers from different research institutes—IITs, NITs, and universities—as well as the students and faculty of CUHP took an active part in the proceedings.



“We are happy and proud to report that the NSAAD 2019 was successful and met all its objectives.”

MEDIA COVERAGE

Workshop on dynamics

OUR CORRESPONDENT

KANGRA, NOVEMBER 11
A week-long workshop on “Analytical Aspects of Dynamics”, organised by The Mathematical Society of Central University of Himachal Pradesh (CUHP), was inaugurated at Shahpur here today.

Prof CS Aravinda from the Tata Institute of Fundamental Research-CAM, Bangalore, who was the chief guest on the occasion, emphasised the importance of linear algebra and multi-variables calculus for visualising mathematical concepts geometrically.

OSKS Shastri, Dean, School of Physical and Material Sciences, said mathematics was the language of physics. SK Srivastava, co-convenor of the workshop, welcomed the guests. Dr Rakesh Kumar, organising secretary of the workshop, proposed a vote of thanks.