



Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2019 No. 25 of 2019) Koni, Bilaspur – 495009 (C.G.)

Report on "International e-Conference on Plasma Theory and Simulations (PTS-2020)"

Date of Event: September 14 & 15, 2020

Venue : Department of Pure & Applied Physics,

Guru Ghasidas Vishwavidyalaya (Online)



PTS 2020 brochure





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Details of Event Proceedings

| Date (DD-MM- YYYY) | Details of the Session | Details of Resource Person | Number of Participants |
|--------------------------|---|--|---------------------------|
| 14-09-2020 | Inaugural Session (10.30- 11.40 AM) | 1. Dr. R. P. Prajapati, Convener 2. Prof. P. K. Bajpai, HOD 3. Prof. G. K. Patra, Dean 4. Prof. Anjila Gupta, Hon'ble Vice Chancellor, GGV 5. Prof. Avinash Khare, Hon'ble Vice Chancellor Sikkim Central University, Sikkim | 159 |
| 14-09-2020 | Session-1 (11.45 AM- 02.00 PM) | R. Shrivastava, IIT Roorkee | 115 |
| 14-09-2020 | Session-2 (03.00 PM - 05.45 PM) | Punit Kumar, Lucknow University | 160 |
| 15-09-2020 | Session-3 (10.30 AM- 01.30 PM) | M. Bose, Jadavpur University) | 176 |
| 15-09-2020 | Session-3 (01.15 PM – 01.30 PM) (Poster Session) | P. K. Sharma, BUIT, Bhopal | 155 |
| 15-09-2020 | Session-4 (02.30 PM- 05.30 PM) | R. Khanal, Tribhuvan University, Nepal | 159 |
| 15-09-2020 | Session-4 (05.15 PM – 05.30 PM) (Closing Remarks & Feedback) | | 153 |





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Abstract of the Event:

Department of Pure & Applied Physics, Guru Ghasidas Vishwavidyalaya, Bilaspur (India) organized two days International e-Conference on Plasma Theory and Simulations (PTS 2020) on 14 & 15 September 2020 through online mode. This is yet another feather in the academic cap of the department where such interactions have been going on almost consistently. The e-Conference covered diverse research areas of theoretical and simulations areas of Plasma Physics including Basic Plasma Phenomena, Dusty Plasma, Quantum Plasma, Laser Plasma Interactions, Nonlinear interactions, Magnetic Fusion Plasma, Space and Astrophysical Plasma and MHD and Fluid Dynamics. These are some of the niche areas that are contributing to the growth of science & Technology including towards futuristic research and technology including Plasma based accelerators and space programs.

The conference received wider attention from the scientific community as is evident from registrations and spontaneous response received for the event from all over the glove. In this event 350 participants were registered who specifically working in the field of theoretical and simulation plasma studies and the participations include from premier institutes and universities of India, USA, Germany, Egypt, Belgium, Nepal, Iran and Pakistan. It is more heartening that many of the invited lectures will be delivered by experts from abroad.

The department offers PG program in Physics with specializations in condensed matter, Nuclear Physics, Plasma Physics, Astrophysics and Molecular Spectroscopy. The webinar will provide an opportunity to the researchers and faculty members of the department to not only sharpen their knowledge in the field but also develop newer networks.

Theoretical understanding of various aspects of Plasma Physics has matured and developed at a very fast pace in last few decades and impacted the fields of nuclear physics, astrophysics, and accelerator physics to name a few. The exciting lectures followed by live interactions with the eminent scientists in the field will enable the participants of the conference to interact and discuss recent advancements in the emerging fields of theoretical and simulation plasma research.

The key notes address was given Prof. Avinash Khare, Hon'ble Vice Chancellor Sikkim Central University, Sikkim. Prof R. Shrivastava, IIT Roorkee, Dr. Punit Kumar, Lucknow University, Prof. R. Khanal, Tribhuvan University, Nepal, Prof. M. Bonitz, Institut für Theo. Phys. und Astrophy. Christian -Albrechts-Universität Kiel, Germany, Birendra Pandey, Macquarie University, Sydney, Australia, Dr. A.P. Misra, Vishva Bharati Univ. Shantiniketan, W.B., Prof. R. Ganesh Institute for Plasma Research Gandhinagar, Gujarat were present in the conference. Out of 94 research works , 13 were presented in the form of invited talk, 12 in terms of oral presentation and 69 as posters covered all aspects.



Photo of PTS-2020 (Session - 1) on 14-09-2020

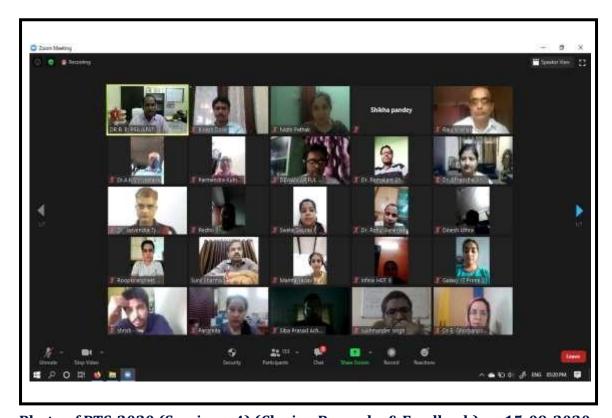


Photo of PTS-2020 (Session - 4) (Closing Remarks & Feedback) on 15-09-2020