

Symposium on Advances in Physics from Small to Large Scales (APSLs-2020)

(March 19 - 21, 2020)

In the memory of Prof. D.D. Pant
Founder Vice-Chancellor and an eminent Physicist, Kumaun University, Nainital

Sponsored by
University Grants Commission, New Delhi

Organised by
Department of Physics, UGC-Centre of Advanced Study, Kumaun University, Nainital – 263 001

In collaboration with
Uttarakhand Science Education and Research Centre (USERC), Dehradun



Theme: It is an astounding fact that the modern day Physics can quantitatively describe phenomena from small scale of Quarks and Leptons to the large scale of the whole present day universe. In the universe, most of the physical phenomenon belong either to small or large scales, which play an important role even in our day-to-day life. Large scale events affect us directly and indirectly in various ways for example: effects of cosmic rays, solar eruptions in the interplanetary space, very high energetic gamma-ray phenomena in the Universe etc. However, in many cases the Physics of the small and large scale physical phenomena show exceptional similarity and the Physics involved in small scale events becomes crucial to interpret the large scale events. In addition, spectroscopic study of any physical phenomena irrespective of the scale involved, gives us very precise information to understand the kinematics and dynamics of these events. Keeping in views these facts and the grand success of APSLS-2018 & APSLS-2019, the present symposium (the third in this series) is aimed to bring together the researchers from diverse areas like: High Energy Physics, Spectroscopy and Astrophysics. It will review various developments in the same areas and discuss their future perspectives. The Symposium is expected to cover following topics:

- **High Energy Physics:** Basic Building Blocks of Matter, Fundamental Interactions of Quarks and Leptons, QCD and Hadron Dynamics, Standard Model and Beyond, Advances in Field Theories.
- **Spectroscopy:** Spectroscopic investigations from macro to micro, time domain laser spectroscopy and its application.
- **Astrophysics:** Sun and Solar System, Solar Activities, Galaxies and Star Clusters, Exotic Objects and Events, Atmospheric Physics.

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Patron

Prof. K. S. Rana
Vice-Chancellor
Kumaun University, Nainital

Convener

Prof. H. C. Chandola
Head, Department of Physics
Kumaun University, Nainital

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About Department: The organising Department (Department of Physics) is a major Department of Kumaun University, Nainital, which is well known for its teaching and research activities in the field of High Energy Physics, Spectroscopy and Astrophysics right from its inception in 1973. The department has been engaged in quality research work and also has collaboration with various national as well as international academic institutes. As a result of this the department has been specially identified by UGC under its SAP programme since 1989. Presently, the department has been provided the status of Centre of Advanced Study (CAS-I) by UGC in 2015.

Venue: The venue of the symposium during March 19 - 21, 2020 is at the Department of Physics, DSB Campus, Kumaun University, Nainital - 263001, which is around 35 km from nearby Kathgodam railway station and 60 km from the nearest Pantnagar Airport. Nainital is a well known Lake City of Uttarkhand and a world famous tourist destination.

Abstract submission and Registration: The last date for the registration and abstract submission through email is February 28, 2020. The scientific deliberation of symposium consists of invited talks and contributory papers as oral and poster presentation.

The registration fee is Rs. 3000/- (Rupees Three Thousand only) and must be paid through online/NEFT to symposium account SAP PHYSICS, A/C No. 98420100006951 (IFSC- BARB0EXTNAI). Boarding and lodging facilities during the symposium will be provided by organisers. Due to limited funds, only a very limited number of participants may be provided the travel support.

For registration, please provide the following information:

Name, Designation, Institute, Address, email, contact number, accommodation required, travel support, (brief CV and recommendation letter from supervisor in case of student)

Contact:

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