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Dr G Ramesh Babu
Dr B Muthukumar

**NATIONAL SEMINAR ON
QUANTUM & NONLINEAR
OPTICS
(NSQNLO-2019)**

8th March 2019

**In memory
of
Prof K Porsezian**

**Sponsored by
(UGC-SAP DRS-II)**



**DEPARTMENT OF PHYSICS
PONDICHERY UNIVERSITY
PUDUCHERRY – 605 014
(<http://www.pondiuni.edu.in>)**

ABOUT NSQNLO-2019

The field of optics has been ever expanding in its scope of research in both fundamental aspects and towards its utility in areas not limited to physics. The advent of nonlinear aspects opened up numerous possibilities of applications having far reaching impact in the way optics was understood. The increasing possibilities of better lasers have further strengthened the research in nonlinear optics.

Intense light from lasers on one hand lead to the modification of refractive index and eventual emergence of nonlinear optics. On the other hand laser light being nearly monochromatic and highly coherent made it possible to probe the fundamental interaction of a atom with single photon thereby pushing the limit of understanding at quantum regimes. Laser light, be it cw or pulses, can be further “shaped” to achieve desire applications.

The one-day national seminar aims at providing a platform for students to have a firsthand knowledge and interaction from eminent scientists in the respective fields of research. The speakers are well accomplished leaders in their own respect and are there to provide an easy to understand interaction platform.

Mode of Conduct of the Seminar

List of Speakers

1. Prof M Lakshmanan, Bharathidasan University
2. Dr S Kanmani, IGCAR Kalpakkam
3. Dr G Raghavan IGCAR Kalpakkam
4. Prof Surendra P Singh, University of Arkansas
5. Prof Prasanta Panigrahi, IISER, Kolkata
6. Prof. Prem Kiran, University. of Hyderabad
7. Dr S Sivaprakasam, Pondicherry University
8. Dr Alok Sharan, Pondicherry University

ABOUT THE DEPARTMENT

The Department of Physics came into existence in June 1987. The department offers postgraduate programmes and conducts research in frontier areas of Physics. The department has been recognized for special funding by UGC-SAP and DST-FIST program. The faculty members are involved actively in research areas viz. material science: magnetic, dielectric, electronic, photonic and nano- materials; solid state ionics, spectroscopy and transport studies; non-linear dynamics, magnetism, plasma physics, multi-ferroics, spintronics, non-linear optics and semiconductor lasers; The Department currently offers a five-year integrated M.Sc., a two-year M.Sc (specialization in, Astrophysics, Condensed Matter Physics, Lasers and Electronics), and Ph.D programmes.

ABOUT PUDUCHERRY

The coastal town of Puducherry with a French ambience is known for its serene atmosphere. Legend associates ancient Puducherry with great Hindu sage Agastya. Sri Aurobindo Ashram and the nearby Auroville International Township lend a unique spiritual flavour to the city. The city nurtured two great Tamil revolutionary poets, Sri Subramani Bharathi and Sri Bharatidasan.

The climate is tropical (between 18° C and 38° C) with two monsoons, having fairly heavy rainfall in November and very moderate rainfall in July. Puducherry is 160 km south of Chennai and is well connected by bus through East Coast Road (ECR). The frequency of bus service from Chennai to Puducherry is high (every 20 min.) and hence the preferred mode of transport. Rail connections are available via Villipuram (Chennai – Villipuram – Puducherry).

REGISTRATION FORM FOR NSQNLO-2019 8th March 2019

(Please mail to the Organisers by 6th March 2019)

Name :**

Designation :

Address :

Fax :

Phone :

e-mail :

***No Accomodation or Travel Assiatnce would be provided to any participants**

Signature

+ Please enclose a brief write up of one page on your recent reserach activities and how you think this seminar would benefit you.

Limited Particpantion!! Selected participant would be informed by email