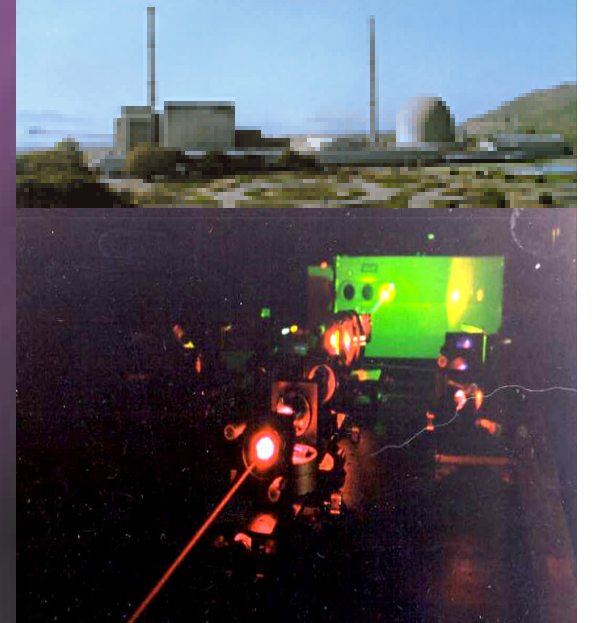


# BRNS Theme meeting on WIDELY TUNABLE OPTICAL PARAMETRIC OSCILLATORS 28-29 August, 2009, BARC, Mumbai

Optical Parametric Oscillators (OPO) have emerged as an ideal spectroscopic tunable light source, with a good potential to replace the ubiquitous dye laser, as well as other sources in the near and mid-IR for wide-spread applications in energy, environment, health care, national security, and industry, as well as, in basic and applied sciences. The primary technological challenge in the development of OPOs, particularly with widely tunable monochromatic output in the visible-IR wavelength region, is the high threshold intensity required to initiate the non-linear optical frequency conversion process and stringent demands on spatial and temporal quality of the pump radiation. The objective of the theme meeting is to give an opportunity to the researchers to assemble and exchange ideas to overcome the challenges in developing different types of OPOs.



*Topics to be discussed:* Invited talks with focussed discussion will be held on the following topics. Research Scholars are encouraged to present posters.

- Basic Nonlinear Optics
- Simulation of OPO Characteristics
- Nanosecond Low Repetition rate OPO
- Nanosecond High Repetition rate OPO
- Synchronous OPO
- Femtosecond OPO
- CW OPO
- Intracavity OPO
- Fiber OPO
- Crystals for OPO
- OPO as Strategic Spectral Source

#### *Tentative List of Speakers :*

- V. P. N Nampoori (CUSAT)
- A. T. Raghunath (LASTEC)
- P. B. Bisht (IITM)
- P. K. Datta (IITKGP)
- M. R. Shenoy (IITD)
- U. Chatterjee (Burdwan Univ.)
- M. Daniel (Bharathidasan Univ.)
- S. Ganesa Moorthy (RRCAT)
- P. K. Mukhopadhyay (RRCAT)
- R. C. Bapna (BARC)
- K. Dasgupta (BARC)
- A K Singh (BARC)
- B. Goswami (BARC)

There is no Registration fee for participation . TA may be arranged for the deserving participants . Interested researchers may submit a one page abstract and participation intimation before 20.07.2009 to:

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