

# Light scattering by different types of particles, with applications in Physics

*(Under the aegis of MHRD---Global Initiative on Academic Network)*

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**5th April - 13th April, 2016 at Assam University, Silchar**

Number of participants for the course will be limited to fifty.

## Overview

Prof. Robert Botet works on light scattering theories and its application in Astrophysics, especially in the area of interstellar medium. Prof. Botet will primarily take lectures on Physics associated with light scattering by various particles (including interstellar dust which are astrophysical in nature). So he will cover topics related to Astrophysics, though any student studying Electromagnetic Theory can take benefit out of it.

All the lectures delivered by him on light scattering ( by dust particles) will have direct applications in industry, meteorology, solid state physics and other related areas. Students working in different areas of Physics and interdisciplinary areas from other institutes / universities will be equally benefitted by this set of lectures.

With his six lectures and three tutorials during one week, he will cover one credit in nine hours. Another set of six lectures will be delivered by host faculty (or in house faculty).

<b>who can attend</b> ...	<ul style="list-style-type: none"><li>• Executives, engineers and researchers working on light scattering, atmospheric dust, light pollution, industrial dust, astronomical dust, interplanetary medium, interstellar medium in Astrophysics can attend.</li><li>• Students at all levels (B Tech/M Sc/M Tech/Ph D) or Faculties from reputed academic institutions and technical institutions.</li></ul>
<b>Fees</b>	The participation fees for taking the course is as follows: <b>Participants from abroad : US \$500</b> <b>Industry/ Research Organizations: 20000</b> <b>Academic Institutions: ` 5000</b> The above fees include all instructional materials, computer use for tutorials and assignments, laboratory equipment usage charges, 24 hr free internet facility. The participants will be provided with accommodation on payment basis.

## The Faculty



Professor Robert Botet is a Research Director, of CNRS funded Laboratoire de Physique des Solides – bat.510 – CNRS/UMR8502 in Université Paris-Sud, Orsay, 91405, France. He has worked in the problems related to formation of dust particles and grains and applied this knowledge in different branches of Physics, including Astrophysics. He has worked on the simulations of particles with different structures, compositions and sizes. He had studied their light scattering properties, which have immense applications in the areas of interstellar medium, comets and asteroids.

He has executed many CNRS funded projects. He has also worked in many international projects including those with Japan, India, USA, Greece etc. He has more than 150 publications and 2 books to his credit.



Asoke K Sen is a Professor in Department of Physics, Assam University, Silchar. He works in astrophysical problems, where polarization measurements and light scattering by dust particles play important roles. He has executed many research projects funded by DST, DAE, ISRO in the areas of astrophysics and related instrumentation. He has also worked in international projects with Japan, Russia, France and Germany. He has more than fifty publications in reputed international journals to his credit.

## Course Co-ordinator

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<http://www.aus.ac.in/faculty-profile/>