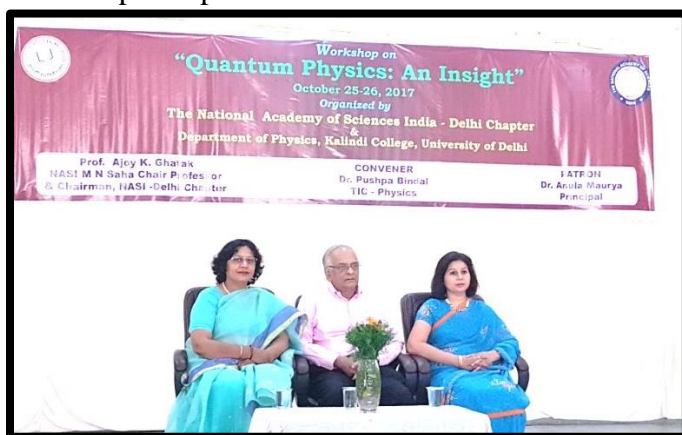


**Workshop on ‘Quantum Physics: An Insight’,  
October 25-26, 2017,  
Kalindi College, University of Delhi**

**Organized by  
The National Academy of Science India –Delhi Chapter  
&  
Department of Physics, Kalindi College, University of Delhi**

A two day workshop “Quantum Physics: An Insight” held on Oct 25-26, 2017, was organized by the “Department of Physics, Kalindi College, University of Delhi” and “The National Academy of Sciences India - Delhi Chapter” under the convenorship of Dr. Pushpa Bindal. The workshop had huge participation of around ~ 130 participants from various sectors of educational institutes such as Amity Univeristy (Gurgaon), JIIT (Noida), Sharda University (Noida) and Delhi University Colleges, Hansraj, Gargi, Daulat Ram, Maitreyi, Ramjas, Shivaji, SV College etc. In total 24 faculty members and 106 students participated.



The workshop was conducted in 6 technical sessions and it mainly focused on the development and the current scenario of the Quantum Physics. The speakers enlightened the students on the basics as well as topics of current research thereby generating their interest in higher academics and research.

In the inaugural session, renowned Physicists Prof. Ajoy K. Ghatak (Meghnad Saha Professor, Chairman, The National Academy of Sciences India-Delhi Chapter, Formerly Professor IIT Delhi) and Prof. Kamal Datta (Formerly Professor, Department of Physics and Astrophysics, University of Delhi) elaborated the importance of Quantum Physics as a major discipline in Physics. The inaugural session was followed by 3 technical sessions.

In **Technical Session I**, *Prof Ajoy K Ghatak* talked about “*Evolution of Quantum Theory*” and his talk was very well received by the audience. In the **technical session II**, *Prof. Ajoy K. Ghatak* continued with his first lecture and talked about “Schrodinger Equation & Basic Concepts in Entanglement” in the second lecture. This was followed by a talk on “Three Faces of Quantum Phase” by *Prof. Patrick Das Gupta* (Professor, Department of Physics and Astrophysics, University of Delhi). Both the speakers interacted with the students and answered their queries after the talks. In the last session of day 1, i.e. **Technical session III**, we had the privilege of listening to Prof. Anurag Sharma, HOD, Department of Physics, IIT Delhi, on “Eigenvalues and Eigen States: Beyond Exact Analytical Solutions”.



On Day 2, the **Technical session IV**, started at 10:00 am with an excellent talk by **Prof. K. Thyagarajan**, Professor, Department of Physics, School of Engineering and Applied Sciences, Bennett University (Formerly Professor, IIT Delhi) on “Quantum nature of light and the photon”. The students as well as faculties both were equally appreciative of his knowledge of Quantum Physics. **V<sup>th</sup> Technical session** was graced by the talks of **Prof. Kamal Datta** and **Prof. Anirban Pathak**, Department of Physics, Jaypee Institute of Information Technology, NOIDA. Prof. Datta presented an excellent overview of the “Development of Quantum Formalism” starting from classical mechanics. **Prof. Anirban Pathak** delivered his talk on “How to Build a Small Optical Quantum Computer” and explained about the development of ‘Optical Quantum Computer’ starting from basic concepts. The last **Technical session VI<sup>th</sup>** was an online session on “Quantum computing over Cloud”, given by Prof. Anirban Pathak. He gave a live demonstration of quantum computing using web link by IBM.

The workshop ended with the certificate distribution and vote of thanks by Dr. Pushpa Bindal.

