

## LIST OF WORKSHOPS/SEMINARS – DEPARTMENT OF PHYSICS 2017

### 1. One day workshop on Mathematica Software organized by the Department of Physics in association with Wolfram Research USA on 20 June 2017



## **One Day Workshop on Wolfram Mathematica at University of Calicut 20 June 2017**

Department of Physics, University of Calicut organized a One-Day workshop on Wolfram Mathematica Software for Students, Research Scholars and College & University Teachers of Science and Engineering disciplines. The motivation behind the workshop was to give an exposure of an important Software which can do symbolic mathematical calculations, numerical calculations visualizing the data in a single module all of which are essential for learning and research activities of science and engineering. There are certain occasions like teaching simultaneous equations, introducing quantum mechanics problems like tunnelling, solving higher order coupled differential equations or other advance calculations involving vectors, where a teacher face difficulty to in solving and visualizing the results on a blackboard due to lack of time and need for long calculations. Here, Mathematica software, opens up a rare opportunity to does everything in a single window simultaneously without needing to open multiple windows as other software like Matlab Python does. Furthermore, the software's online cloud facility is free without charges and can do good amount of computations needed for learning and research. There are software which do independently symbolic calculations, numerical calculations and the others do visualizing the data using plotting single and multiple data in an appealing manner which the users are interested.

More than 70 participants enthusiastically attended the program till the end. Prof. G. Govindaraj, Professor of Physics and an expert of Mathematica came as a resource person along with faculty members from the host department lead the classes and hands-on sessions.