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2017.09.14

**Executive committee of the Physics Society
Invites you for the 28th talk of the**

Physics Seminar Series

**Computation modelling of Nanomaterials
for the Solar cell applications**

Rasukkannu Murugesan

BE(Eng. Hons)(Anna University), MSc(Newcastle, UK)

PhD student and Research associate, Western Norway University of Applied Sciences

Supervisor - Professor Velauthapillai Dhayalan

Abstract: Computation modelling of nanomaterials is computationally challenging, we use appropriate mathematical and computational methods to solve the problem effectively. For this task, we use the density-functional method, fully self-consistent in the generalised gradient approximation for exchange and correlation corrections and hybrid function. Our results suggest that these nanomaterials are promising host for the development of third-generation solar cells. We present here the numerical results of these nanomaterials findings a significant effect in understanding these materials and use to improve the photovoltaic properties.

Venue: Mini-Auditorium, Dept. of Physics (2nd floor)

Date and Time: September 15, 2017 (Friday), 12:00 -12: 45 pm

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