

OPEN SEMINAR

Speaker: Mr. Syed Rizvi

Department: PhD student, EE

Title: An Improved Method For Extraction Of Mobility From Space Charge Limited Current In Organic Semiconductor Films

Date: 28th February 2017

Time: 05:15 PM

Place: Samtel Centre Seminar Room (access from ground level)

Abstract: Charge carrier mobility in π -conjugated organic semiconductors play decisive role in the performance of various devices, including organic solar cells, light Emitting Diodes and thin film transistors. In this seminar, we will discuss significant errors accompanied by the method of extraction of mobility from routine current-voltage characterization. A solution is proposed such that errors are less than 10% in low voltage range of (0.5-1 Volt) as compared to conventional technique which has errors larger than 100% over the same voltage range.