



SEMINAR ANNOUNCEMENT

“Al_{0.3}Ga_{0.7}As/GaAs Multijunction Solar Cells: Fabrication and Characterization”

Gamal Mohamed Eldallal

Associate Professor, Department of Physics, Jazan University

Wednesday, 23 Mar 2016, 11-12 PM, ROOM No. 2308

Al_{0.3}Ga_{0.7}As/GaAs tandem solar cells were grown by Metalorganic Chemical Vapour Deposition (MOCVD) growth method. The variation of the photovoltage, photocurrent, fill factor and efficiency of the solar cells under different temperatures and light intensities were investigated experimentally. Electron irradiation on the multijunction solar cells was performed at room temperature using a linear electron accelerator and their radiation resistance of the cells was evaluated. The results show a high degradation of the short circuit current and a slight degradation of the fill factor and the open circuit voltage; which are mostly recovered by annealing at 300°C for half an hour.

Organized by

Physics Department, Faculty of Science, Jazan University

<http://colleges.jazanu.edu.sa/sites/en/sci/physics/>