

R.I.T

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Seminar Series

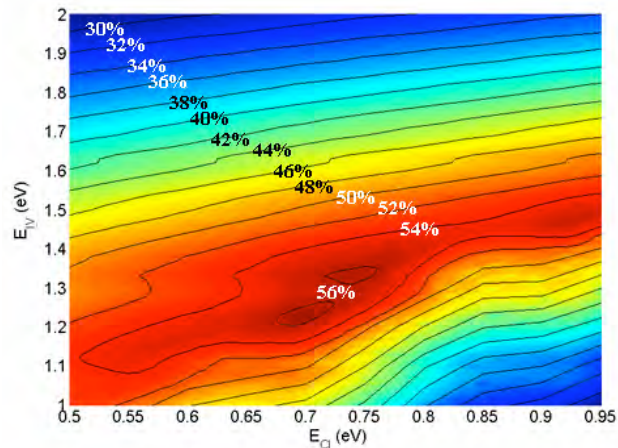
Nanomaterials for Optically-Based Solar Cell Technologies

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Solar Concentrator System
Green Field Solar, Cleveland, OH
5kW, Roof Top (800-1000X)



**Efficiency contours for an
Intermediate Band Solar Cell at
100X solar concentration**

High Concentration Photovoltaic (CPV) systems use optics to focus sunlight onto a small receiving solar cell. The CPV approach allows one to replace a large portion of the most expensive third-generation Photovoltaics (PV) system component, the crystalline solar cell, with cheaper metal and plastic concentrator systems components. Maximizing the cell efficiency becomes crucial in order to minimize the overall cost per Watt of CPV based power. This talk will give an overview of PV research at RIT, a discussion of the CPV approach and specific examples of how nanomaterials can be used in III-V concentrator PV design.

4pm, Wed, April 8, 2009

Auditorium of the Center for Imaging Science

www.cis.rit.edu/seminar

for up-to-date seminar schedule, video archives and abstracts.