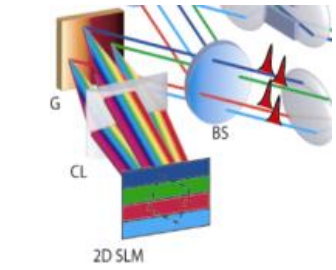
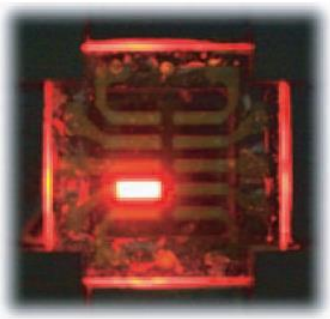
Center for Excitonics (CE)
Marc Baldo (MIT)

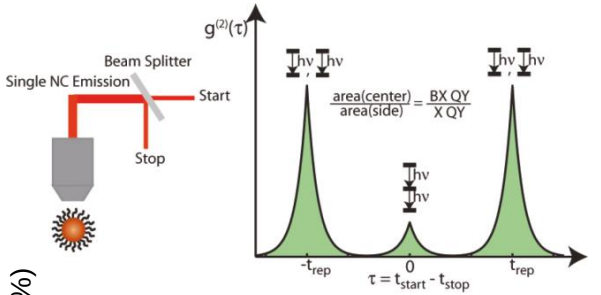
Electronics vs Excitonics

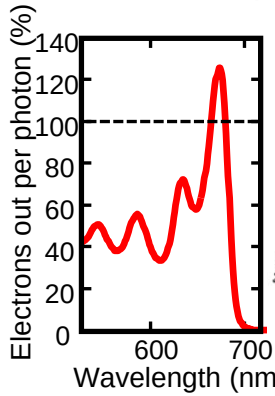
Excitons are nanoscale packets of energy that are characteristic of low-cost materials for solar cells and solid state lighting. The CE EFRC seeks to supersede traditional electronics with devices that use excitons to mediate the flow of energy.

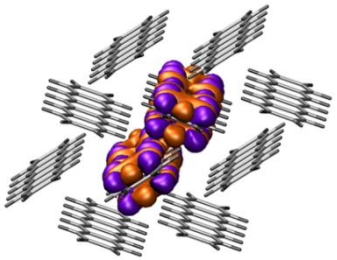
http://www.rle.mit.edu/excitonics/











RESEARCH PLAN

The CE EFRC addresses the two grand challenges in excitonics:

(1) Understand, control and exploit exciton transport

(2) Understand and exploit energy conversion between excitons, electrons, and photons.

CE's advances will be applied to low-cost solar cells and solid state lighting.

U.S. DEPARTMENT OF ENERGY | Office of Science

BROOKHAVEN NATIONAL LABORATORY

center for excitonics