Physics Student Seminar

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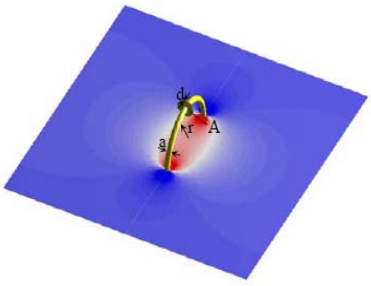
Wednesday 3/21/2007, 4:30pm
Willet Science Center 101

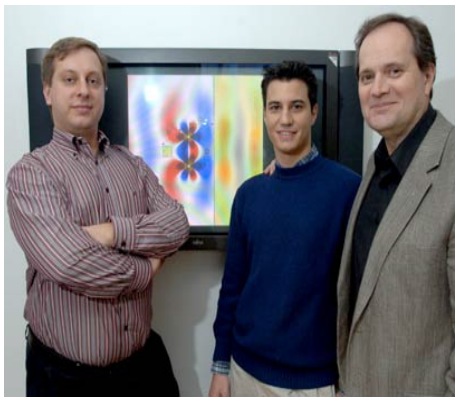
Wireless Power Transmission through Evanescent Wave Coupling

As mobile, rechargeable electronic devices become more numerous, the need to be able to deliver power to these devices from anywhere becomes more necessary. Normally, direct wires to power sources have been used, but in the increasingly mobile workplace, direct wires are slowly becoming inefficient, both in terms of convenience and economically.



Omni directional power transmission without the use of wires would be far better suited to ensuring that power could be transmitted to these electronics from any given location, but currently, no such practical method of wireless power transfer exists.

A research team at MIT has developed a prototype of mid-range, non-invasive wireless power transmission through the use of an evanescent wave coupling process. This talk will provide some background on wireless power, the current methods known to transmit power wirelessly and will focus on explaining this new method of wireless power transmission devised by those researchers.



Please join us for light refreshments at 4:15pm outside WSC 109.