

PHYSICS DEPARTMENT COLLOQUIUM

“Spin Physics in Organic Semiconductors”

BY

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In this talk I will review the spin physics included in the 'hot' subject nowadays of organic light emitting diodes (OLED), and also the status of the young field of Organic Spintronics. Following a brief review of organic semiconductors grown in our department, and OLEDs fabricated here; I then will summarize the necessary ingredients needed for Organic Spintronics. Next I will discuss the exciting properties of LaSrMnO₃; a 100% spin injector, and its importance in operating organic spin valves. I will then discuss three applications of two terminal organic spin devices: with two FM electrodes for use as spin-valve; one FM electrode for FM detector; and none FM electrode for use as magnetometer.

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4:00 PM IN 102 JFB
REFRESHMENTS AT 3:30 PM IN 219 JFB