



Vorlesungsankündigung

Organic Electronics

SS 2012

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Wahlvorlesung im Master-Studiengang

- nach der neuen DPO der Vertiefungsrichtung „Polymer Electronics and Novel Technologies“ den Modulen „Materials and Processes“ und „Devices and Systems“ sowie
- nach der alten DPO im Wahlpflichtbereich „Device Technology and Signal Processing“ dem Modul „Nanotechnology and Nanodevices“

Not long ago, it was hard to imagine that there could be any use for polymers beyond plastic bags or electrical insulators etc. With the discovery of organic semiconductors this view has changed completely: The field of organic (opto-)electronics was born and has matured significantly in recent years. First products, like displays based on organic light emitting diodes (OLEDs) and organic solar cells have already entered the market. Organic semiconductors allow for an essentially novel class of electronics, that can be light weight, highly efficient, flexible, and even transparent.



This lecture will provide an introduction to the exciting field of organic semiconductors and devices. In practical courses, you will have the opportunity to fabricate and characterize organic devices (e.g. TFTs, solar cells, ...) in our lab.

Scope

- Organic semiconductors
- Technological aspects
- Organic transistors
- Organic memory
- Large area electronics
- Organic energy
 - Photovoltaics
 - Energy storage
- Organic light emitting devices
 - OLEDs
 - Organic Lasers
- Market prospects for organic electronics



Start: Friday, 13. April 2012, 10:15 h

Where: FH4