Grako 1640
Teaching Module

Polymers and their role as organic semiconductors

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Date: Monday, January 27th 2014 09.00 – 13.00
      Tuesday, January 28th 2014 09.00 – 13.00
Location: Seminar room PNS building

Contents:

Part I (P.S.)
- Principles of polymers, molecular weight, molecular weight distribution
- Overview: classes of conjugated polymers
- Synthetic strategies towards selected conjugated polymers
- Purification of conjugated polymers, comparison to low molar mass materials
- Characterization, NMR, thermal characterization, (glass transition temperature, melting point), gel permeation chromatography (GPC), detection of impurities

Part II (A.K.)
- Excited molecules from the gas phase to the amorphous film (incl. including dimers and excimers)
- Excited molecules in crystalline phases (Frenkel exciton, Aggregates)
- Excited states in \( \pi \)-conjugated polymers (crystalline polymers and non-crystalline polymers)

Registration until January 21th 2014