

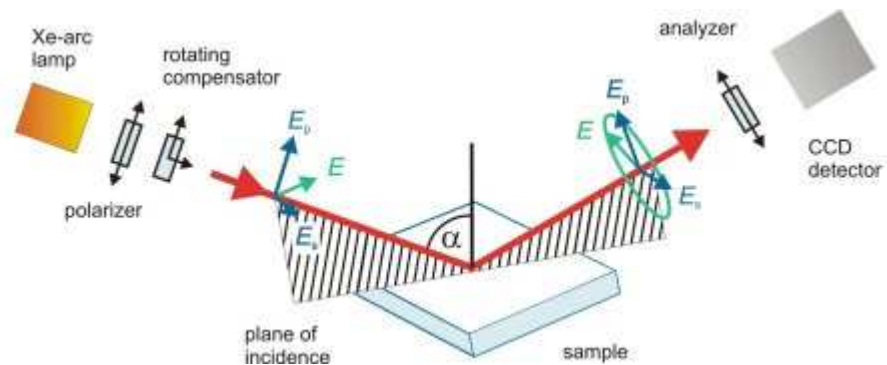
Experimental Techniques

in NanoScience & BioPhysics

zu VF (Vertiefungsfächer)

- "Bio/Medical Physics"
 - "Nanostructures"
 - "Kondensed Matter"
- (Diplom or
Bachelor/Master)

Prof. Dr. Frank Schreiber
Dr. Fajun Zhang
Dr. Alexander Gerlach



Every Wednesday 15:15 – 17:00 in C9A03 – First lecture 17.10.2012

The language of the course will be English, but where necessary a German translation will be offered.

From the contents:

1. Spectroscopic techniques
2. Microscopic techniques
3. Scattering techniques
4. Preparation techniques
5. Vacuum technology

The course will provide a background for experimental work, including for each technique a theoretical basis and explanation of the experimental technology. A common perspective on how to design and analyze experiments will be offered. Application examples will be drawn from nano-science and bio-physics, but also other areas will be included in the discussion.

Further information:

<http://www.soft-matter.uni-tuebingen.de>

email: frank.schreiber@uni-tuebingen.de, Tel. 78663/office C7A35

Literature: The handouts (Skript from the homepage) will be the basis. There are also many textbooks on the subject; see, e.g., R. Winter / F. Noll, Methoden der Biophysikalischen Chemie, Teubner. The course can be used to obtain the corresponding ECTS credit points.