

21-25/10/2017, CEITEC Brno, Autumn school

From structures to optical functions: layered materials serving biosensing

Sat 21			title
	welcome, TWINFUSYON session		
		time	
Sun 22			
	basics		
	Humlicek	9--11	Optical properties of bulk: response functions
	Holy	11--12	X-rays as electromagnetic radiation I
	lunch	12--13	
	Holy	13--14	X-rays as electromagnetic radiation I II
	Klenovsky	14--15	Optical properties of nanostructures
Mo 23			
	Dubroka	9--10	IR: optical response of free carriers and phonons
	Munzar	10--12	Introduction to quantum theory of optical response of solids
	lunch	12--13	
	Tiwald	13--14	Advances in ellipsometric instrumentation
	Tiwald	14--15	Biological applications of ellipsometry
	Farka	15--16	Immunosensors for detection of pathogenic bacteria
	CEITEC lab tour	16--18	
Tu 24			
	Klapetek	9--10	Thin-film metrology
	Cobet	10--11	tba
	Chaloupka	11--12	Photonic crystals
	lunch	12--13	
	Caha	13--14	X-ray reflectivity: Experiment and case studies
	Rozboril / Humlicek	14--16	exercise session
	dinner (downtown: Stopka)	19--22	
We 25			
	Novak	9--10	Small angle x-ray scattering - basics and applications
	Hemzal	10--11	Identification of biomolecular motifs using Raman spectroscopy
	Dvorak	11--12	Total internal reflection ellipsometry under SPR conditions
	lunch	12--13	
	summary, discussions	13--15	