

Programme 20-23 Nov 2012

Course: **Biomolecular NMR with Non-Uniform Sampling**

Address: Swedish NMR Centre, University of Gothenburg
Medicinaregatan 5C, 41390 Gothenburg, Sweden

Info: <http://www.nmr.gu.se/english/courses/>

Time	Title	Type	Place	Teachers
Tuesday Nov 20				
8.30 – 9.15	Registration and Coffee			
9.15 – 9.45	Welcome, information		Lect. room	
9.45– 10.45	Student presentations	~5min/student	Lect. room	
10.45– 11.05	Coffee Break			
11.05 – 12.30	Introduction to fast spectroscopy	Lecture	Lect. room	KK,VO
12.30 – 14.00	Lunch			
14.00 – 17.30	Setting-up NUS experiments	Lab	Instr. room	MM,KK,VO
17.30 – 19.00		Get-together	Entry hall	
Wednesday Nov 21				
9.00 – 10.00	Computational tools for automated assignment	Lecture	Lect. room	MB,AZK
10.00 – 10.30	Break			
10.30 – 14.40	Workshop (Lecture Room)			
10.30 – 11.00	Compressed sensing in NMR spectroscopy			KK
11.00 – 11.30	Structural characterisation of proteins by projection-decomposition			MB
11.30 – 12.10	Details of Sampling Strategy - Sensitivity Gain Possible?			SH
12.10 – 13.30	Lunch			
13.30 – 14.10	Fast-Pulsing NMR Techniques: Applications to the Study of Protein Folding and Structural Disorder			BB
14.10 – 14.40	New tools for studying Intrinsically Disordered proteins			VO
14.40 – 15.10	Break			
15.10 – 17.30	Computational tools for automated assignment	Lab	Comput. room	MB,AZK
Thursday Nov 22				
9.00 – 10.00	Fast pulsing methods	Lecture	Lect. Room	BB
10.00 – 10.30	Break			
10.30 – 12.30	Fast pulsing methods	Lab	Instr. room	BB,MM
12.30 – 14.00	Lunch			
14.00 – 15.00	Experiences applying Iterative Soft Thresholding to 4D NMR spectroscopy	Lecture	Lect. Room	SH
15.00 – 15.30	Break			
15.30 – 17.30	Iterative Soft Thresholding	Lab	Lect. Room	SH

Friday Nov 23

9.00 – 9.45	Multi-Dimensional Decomposition theory and Applications	Lecture	<i>Lect. Room</i>	VO
9.45 – 10.30	Compressed Sensing	Lecture	<i>Lect. Room</i>	KK
10.30 – 11.00	Break			
11.00 – 12.30	Processing of NUS spectra	<i>Lab</i>	<i>Comput. room</i>	MM,VO,KK
12.30 – 13.30	Lunch			
13.30 – 17.00	Processing of NUS spectra	<i>Lab</i>	<i>Comput. room</i>	MM,VO,KK

MB – Billeter, Martin, University of Gothenburg, Sweden

BB – Brutscher, Bernhard, Inst. de Biologie Structurale, France

SH – Hyberts, Sven, Harvard Medical School, USA

KK – Kazimierczuk, Krzysztof, University of Warsaw, Poland

MM – Mayzel, Maxim, University of Gothenburg, Sweden

VO – Orekhov, Vladislav, University of Gothenburg, Sweden

AZK – Zawadzka-Kazimierczuk, Anna, University of Warsaw, Poland