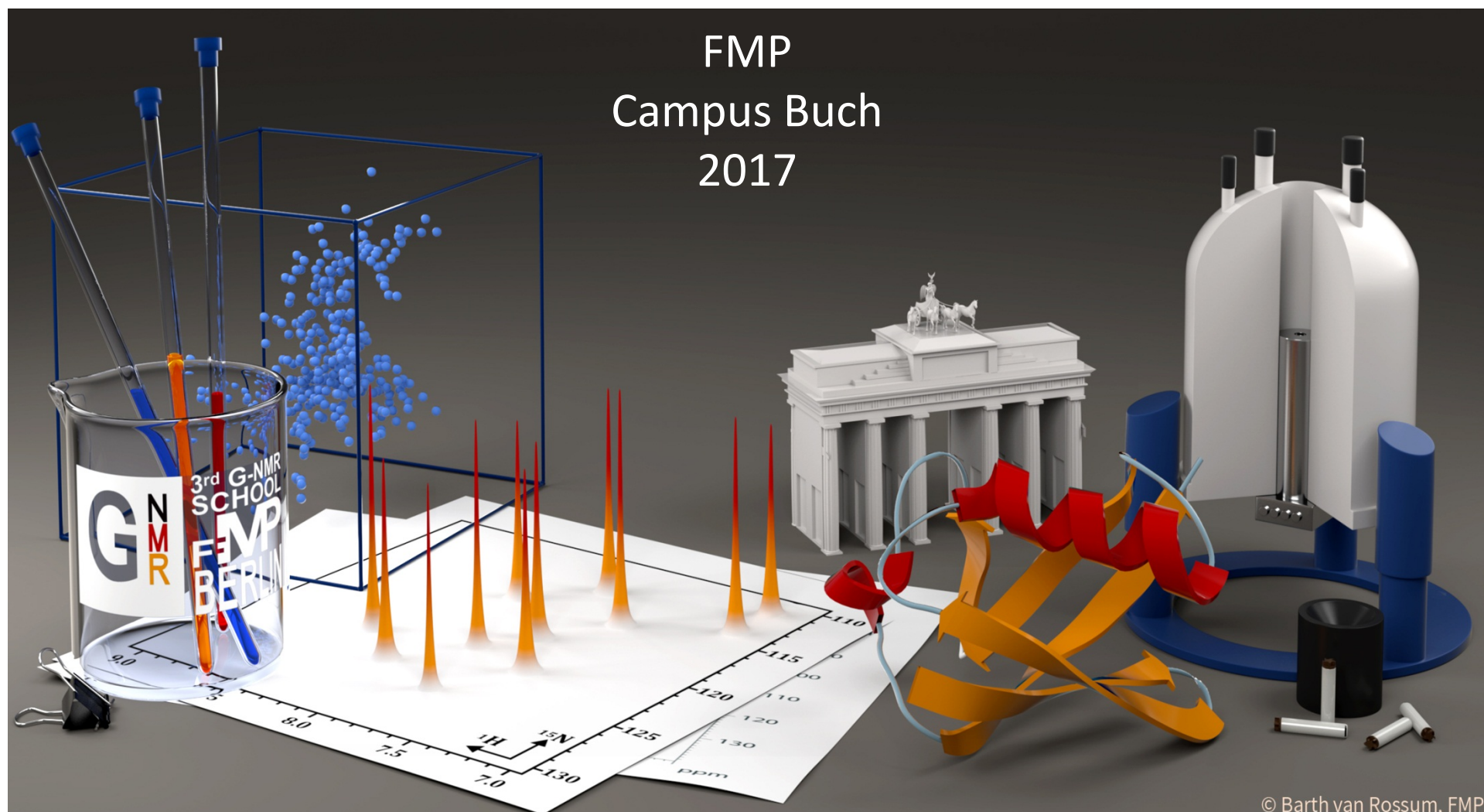


3rd G-NMR-School

FMP
Campus Buch
2017



Thanks to the sponsors of the G-NMR school



Thanks to the people that make it happen

Andrea Steuer
Brigitte Schlegel

Alexandra Chylla
Stefanie Schneider

General Information

- Password to download all presentation from

[http://schmieder.fmp-berlin.info/teaching/g_nmr_schools/
g_nmr_school_2017/presentations.htm](http://schmieder.fmp-berlin.info/teaching/g_nmr_schools/g_nmr_school_2017/presentations.htm)

o user: gnmr password: gnmr

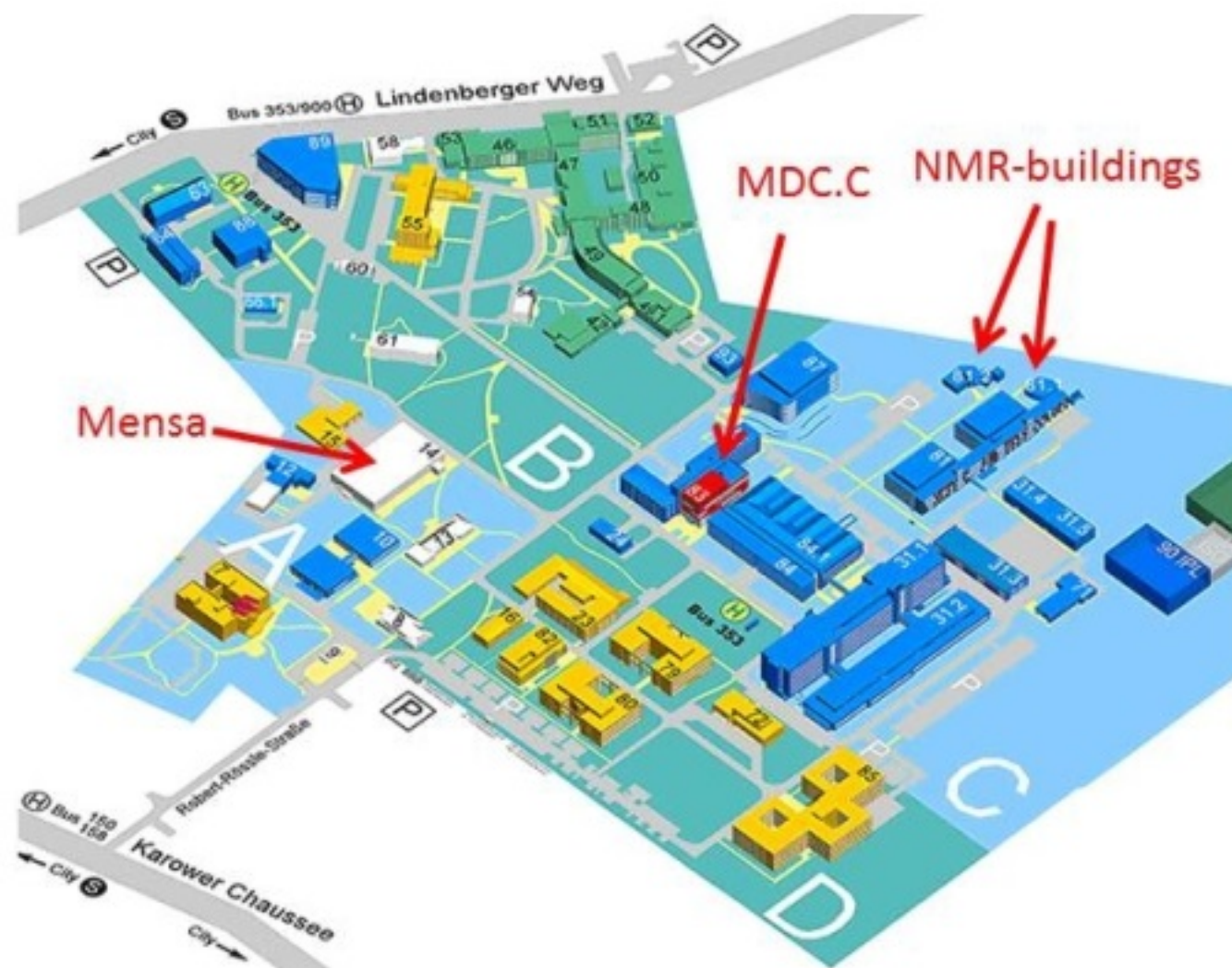
- Internet:

o WLAN network EDUROAM using University accounts

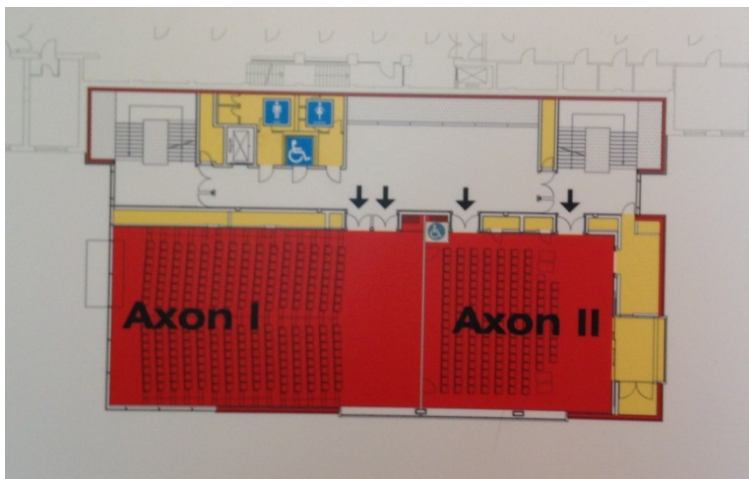
o MDC.C: user: mdcguest password: E2vH9m871ga

o FMP: vouchers to use the guest-net

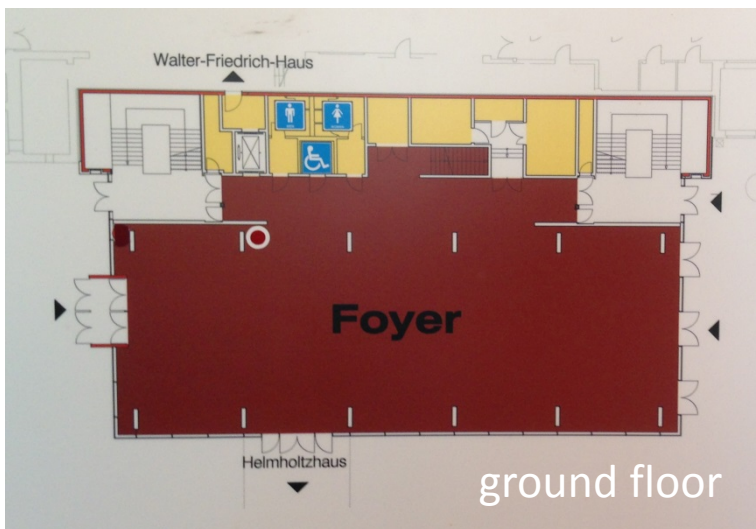
The campus in Buch



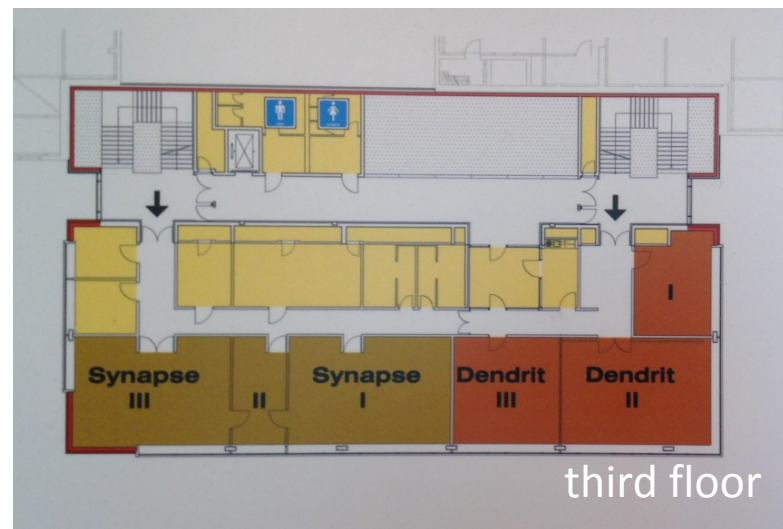
The MDC.C



Axon I:
General Part
Lectures „Bio“
Practical „Using Bruker
assignment tools“



Foyer:
Registration, Coffee breaks
„Beer and snacks“, School dinner



Dendrit II: Lectures „Small Molecules“
Dendrit III: Lectures „Solids“
Dendrit II + III: Practical „Relax“

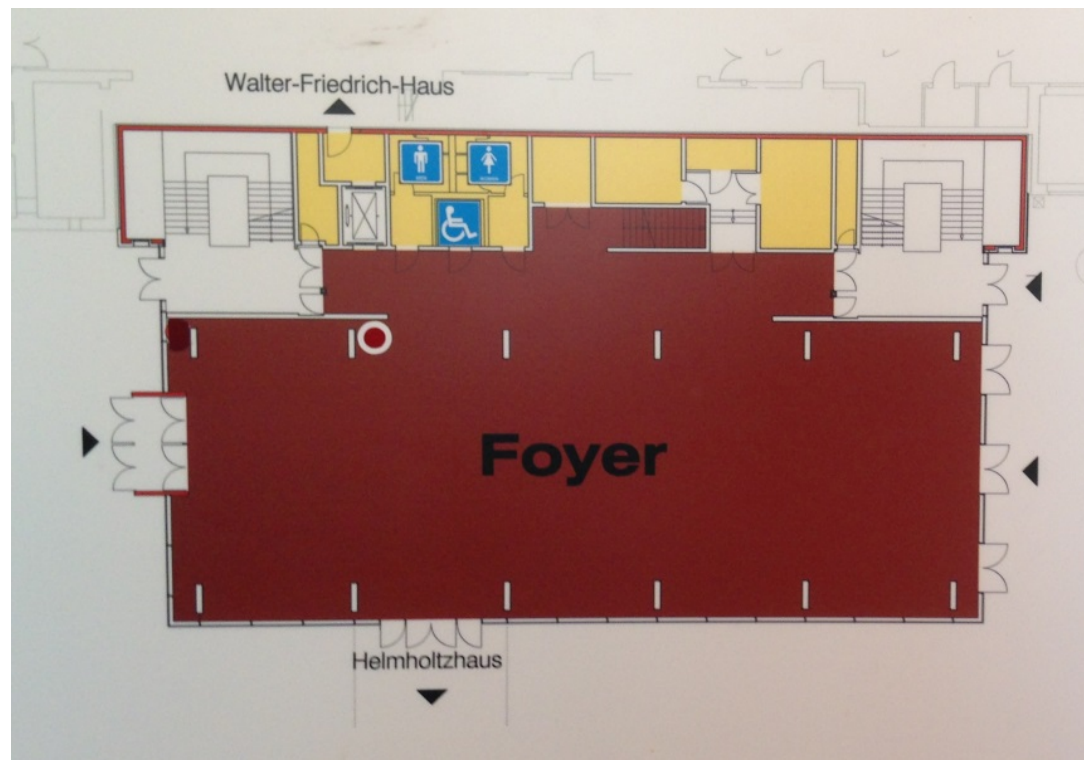
Lunch at the Mensa



3= G-NMR School 18.09.2017 1 Soft drink 1 Main course 1 Dessert	01 Rechnungsanschrift: Forschungsverbund Berlin e.V. (FMP) Rudower Chaussee 17 12489 Berlin
3= G-NMR School 19.09.2017 1 Soft drink 1 Main course 1 Dessert	01 Rechnungsanschrift: Forschungsverbund Berlin e.V. (FMP) Rudower Chaussee 17 12489 Berlin
3= G-NMR School 20.09.2017 1 Soft drink 1 Main course 1 Dessert	01 Rechnungsanschrift: Forschungsverbund Berlin e.V. (FMP) Rudower Chaussee 17 12489 Berlin
3= G-NMR School 21.09.2017 1 Soft drink 1 Main course 1 Dessert	01 Rechnungsanschrift: Forschungsverbund Berlin e.V. (FMP) Rudower Chaussee 17 12489 Berlin
3= G-NMR School 22.09.2017 1 Soft drink 1 Main course 1 Dessert	01 Rechnungsanschrift: Forschungsverbund Berlin e.V. (FMP) Rudower Chaussee 17 12489 Berlin

don't loose them !!

Coffee breaks (every day)
„beer and snacks“ (Monday night)
school dinner (Wednesday night)



All included in the conference fee

Practicals/spectrometer sessions



B1.16:
Practical
„Carbohydrates with
SPARKY“
Practical „CCPN“

NMR-I:
Spectrometer
„bio“/„small
molecules“

NMR-II:
Spectrometer
„solid state“

Programm

3rd G-NMR-School, 18.9. – 22.9.2017, Leibniz-Forschungsinstitut für Molekulare Pharmakologie, Campus Berlin-Buch, MDC.C
General Part for all participants (**Axon I**)
Stand 12.09.2017

	Monday 18.9.17	Tuesday 19.9.17	Wednesday 20.9.17	Thursday 21.9.17	Friday 22.9.17
	General Intro			Theory I	Theory II
9:00 - 10:15	Registration	Parallel Sessions	Parallel Sessions	Product Operator Formalisms (PROF II) Steffen Glaser	TROSY and Cross- Correlated Relaxation Christian Griesinger
10:15 - 10:30	Intro / Infos				
10:30 - 11:30	NMR of Proteins Michael Sattler			11:00 - 11:30	Coffee Break
11:30 - 12:30	NMR of Carbohydrates Mario Schubert			PROF II Chr. Griesinger SpinDrops Steffen Glaser	Relaxation Boris Fürtig
12:30 - 13:30	NMR of IDPs Philipp Selenko			13:30 - 14:30	Lunch Break
13:30 - 14:30	Lunch Break			Phase Cycling/Gradients Peter Schmieder	Exercise I: Theory
14:30 - 15:30	NMR in Drug Design Teresa Carlomagno			16:30 - 17:00	Coffee Break
15:30 - 16:30	MRI Leif Schröder			17:00 - 19:00	Departure
16:30 - 17:00	Coffee Break			Anisotropic Interactions Bernd Reif	
17:00 - 18:00	NMR of RNA Christian Richter				
18:00 - 19:00	NMR of Polymers Ulrich Scheler				
19:00 - 20:00	NMR of Natural Products Matthias Köck				
Evening	Beer & Snacks		School Dinner		

3rd G-NMR-School, 18.9. – 22.9.2017, Leibniz-Forschungsinstitut für Molekulare Pharmakologie, Campus Berlin-Buch, MDC.C
Parallel Session **Bio NMR (Axon I)**
Stand 12.09.2017

	Tuesday 19.9.17	Wednesday 20.9.17
9:00 - 10:00	2D and 3D NMR Michael Sattler	Pulse Programming on Bruker Wolfgang Bernel
10:00 - 11:00		
11:00 - 11:30	Coffee Break	
11:30 - 12:30	In-cell NMR Philipp Selenko	Relaxation Analysis Edward d'Auvergne
12:30 - 13:30		
13:30 - 14:30	Lunch Break	
14:30 - 15:30	Exercise at the spectrometer Peter Schmieder, Gerd Gemmecker (Practicals see below)	Exercise at the spectrometer Philip Neudecker, Gerd Gemmecker (Practicals see below)
15:30 - 16:30		
16:30 - 17:00	Coffee Break	
17:00 - 18:00	Assignment of proteins Victoria Higman	Relaxation Dispersion Philip Neudecker
18:00 - 19:00	FT and NUS Gerd Gemmecker	Solution state NMR of membrane proteins Franz Hagn

Practicals parallel to the spectrometer sessions:
Tuesday: Assignment of carbohydrates using sparky (Mario Schubert) **81.16 (FMP)**
Tuesday: Using Bruker assignment tools (Benny Göring) **Axon I**
Wednesday: Assignment of proteins using CCPN (Victoria Higman) **81.16 (FMP)**
Wednesday: Relaxation Analysis using Relax (Edward d'Auvergne) **Dendrit I/II/III**

3rd G-NMR-School, 18.9. – 22.9.2017, Leibniz-Forschungsinstitut für Molekulare Pharmakologie, Campus Berlin-Buch, MDC.C
Parallel Session **Small Molecule NMR (Dendrit II)**
Stand 12.09.2017

	Tuesday 19.9.17	Wednesday 20.9.17
9:00 - 10:00	NMR experiments for small molecules Johannes Liermann	Pulse Programming on Bruker (Axon I) Wolfgang Bernel
10:00 - 11:00	Metabonomics Thomas Hackl	
11:00 - 11:30	Coffee Break	
11:30 - 12:30	STD, CORCEMA Sebastian Kemper	NMR databases Nils Schlöber
12:30 - 13:30	RDCs Han Sun	Sequential assignment of peptides Monika Beerbaum
13:30 - 14:30	Lunch Break	
14:30 - 15:30	Exercise at the spectrometer Christian Richter, Johannes Liermann (Practicals see below)	Exercise at the spectrometer Christian Richter, Johannes Liermann (Practicals see below)
15:30 - 16:30		
16:30 - 17:00	Coffee Break	
17:00 - 18:00	Homonuclear Decoupling Wolfgang Bernel	Structure elucidation Matthias Köck
18:00 - 19:00	FT and NUS (Axon I) Gerd Gemmecker	

Practicals parallel to the spectrometer sessions:
Tuesday: Assignment of carbohydrates using sparky (Mario Schubert) **81.16 (FMP)**
Tuesday: Using Bruker assignment tools (Benny Göring) **Axon I**
Wednesday: Assignment of proteins using CCPN (Victoria Higman) **81.16 (FMP)**
Wednesday: Relaxation Analysis using Relax (Edward d'Auvergne) **Dendrit I/II/III**

3rd G-NMR-School, 18.9. – 22.9.2017, Leibniz-Forschungsinstitut für Molekulare Pharmakologie, Campus Berlin-Buch, MDC.C
Parallel Session **Solid-State NMR (Dendrit III)**
Stand 12.09.2017

	Tuesday 19.9.17	Wednesday 20.9.17
9:00 - 10:00	Protein solid state NMR Adam Lange	Pulse Programming on Bruker (Axon I) Wolfgang Bernel
10:00 - 11:00	Quantitative Distance Measurements Daniel Tietze	
11:00 - 11:30	Coffee Break	
11:30 - 12:30	Theory of DNP Björn Corzilius	AHT and Symmetries: C and R sequences Jörn Schmiedt auf der Gunne
12:30 - 13:30	Polymers Ulrich Scheler	
13:30 - 14:30	Lunch Break	
14:30 - 15:30	Exercise at the spectrometer Barth van Rossum, Matthias Herrera-Glomm	Exercise at the spectrometer Barth van Rossum, Matthias Herrera-Glomm
15:30 - 16:30		
16:30 - 17:00	Coffee Break	
17:00 - 18:00	Quadrupole solid state NMR Torsten Gutman	Solid state NMR of membrane proteins Clemens Glaubitz
18:00 - 19:00	FT and NUS (Axon I) Gerd Gemmecker	Protons in solid state NMR Bernd Reif

Practicals parallel to the spectrometer sessions:
Tuesday: Assignment of carbohydrates using sparky (Mario Schubert) **81.16 (FMP)**
Tuesday: Using Bruker assignment tools (Benny Göring) **Axon I**
Wednesday: Assignment of proteins using CCPN (Victoria Higman) **81.16 (FMP)**
Wednesday: Relaxation Analysis using Relax (Edward d'Auvergne) **Dendrit I/II/III**

http://schmieder.fmp-berlin.info/teaching/g_nmr_schools/g_nmr_school_2017/program.htm

Evaluation

After the G-NMR school a link for a online evaluation form will be sent.

The evaluation form is important for planning future NMR-Schools.

So please fill in.