

[www.euromar2022.org](http://www.euromar2022.org)



**EURO  
MAR  
2022**

**JULY 10-14 UTRECHT  
THE NETHERLANDS**

**Program &  
posters**



# Program

**VENUE:** EDUCATORIUM, UTRECHT UNIVERSITY

## Sunday 10 July

12.00 - 19.00	Registration	<i>Educatorium Foyer</i>
---------------	--------------	------------------------------

13.00 - 16.00	Bruker Symposium	<i>Wit</i>
---------------	------------------	------------

16.15 - 18.30	Opening session and prizes	<i>Theatron</i>
16.15	Welcome Utrecht University, Department Head Chemistry	
16.20	Welcome AMPERE	
16.25	Welcome EUROMAR	
16.30	Welcome LOC EUROMAR 2022	
16.40	Raymond Andrew Prize Intro	
16.45	Raymond Andrew Prize Lecture	
17.05	Varian Young investigator Intro	
17.10	Varian Young investigator Lecture	
17.40	Ernst Prize Intro	
17.50	Ernst Prize Lecture	

19.00 - 21.00	Welcome Mixer	
---------------	---------------	--





# Monday 11 July

08.30 - 19.00	Registration	Foyer
08.30 - 19.00	Exhibition	RuppertHall

08.45 - 10.15	Plenary 1	Theatron
	Chair: Malcolm Levitt	
08.45	PL001	Plenary Speaker 1: Dynamic Nuclear Polarization using High-Spin Radicals and Electron Spins Clusters <i>Songji Han, USA</i>
09.30	PL002	Plenary Speaker 2: Single Spins in Diamond: Technology and Applications. <i>Christian Degen, Switzerland</i>

10.15 - 10.45 Break


10.45 - 12.45		Parallel Sessions										
	Parallel Session 1: Bio NMR 1 Chair: Oscar Millet			Room: Blauw	Parallel Session 2: EPR & Hyperpolarization Chair: Bjoern Corzilius			Room: Wit	Parallel Session 3: Single Molecules/ NV Chair: Susumu Takahashi		Room: Rood	
10.45	IN001	Structural polymorphism and dynamics of G-rich DNA repeats <i>Janez Plavec, Slovenia</i>			IN003	Unveiling the steps of the prepore-to-pore transition of a Tc toxin <i>Enrica Bordignon, Switzerland</i>			IN005	Prospects of Diamond Solid-State Quantum Sensors <i>Mutsuko Hatano, Japan</i>		
11.15	PT001	Phosphates form spectroscopically dark state assemblies in common aqueous solutions <i>Joshua Straub, USA</i>			PT004	Water Concentration Gradients Across Lipid Bilayers Revealed by a High Resolution HYSCORE Method <i>Alex Smirnov, USA</i>			PT007	Three-dimensional Fourier imaging of thousands individual NVs with sub-micron resolution <i>Aharon Blank, Israel</i>		
11.35	PT002	Real-time NMR recording of fermentation and lipid metabolism processes in live microalgae cells <i>Anjali Pandit, The Netherlands</i>			PT005	On-the-fly optimisation of ESR experiments <i>Jean-Baptise Verstraete, United Kingdom</i>			PT008	Nitrogen-vacancy center as a terahertz source <i>Sándor Kollarics, Hungary</i>		
11.55	PT003	Conformational transformation of the intrinsically disordered SARS-CoV-2 nucleoprotein on interaction with its viral partner nsp3 <i>Martin Blackledge, France</i>			PT061	Utilizing EPR spectroscopy to resolve metal-sensitive transcription mechanisms. <i>S. Ruthstein, Israel</i>			PT009	Surface NMR spectroscopy using NV-centers in diamond <i>Dominik Bucher, Germany</i>		
12.15	IN002	Observation of conformational changes that underlie the catalytic cycle of the 100 kDa exoribonuclease Xrn2 <i>Remco Sprangers, Germany</i>			IN004	Hydrogenative and Non-Hydrogenative Parahydrogen Induced Polarization for Precision Measurement and Molecular Imaging Applications <i>Thomas Theis, USA</i>			IN006	Title: t.b.a. <i>Tjerk Oosterkamp, The Netherlands</i>		

12.45 - 13.45 Lunch

Lunch Symposium JEOL

Megaron

## Monday 11 July - continued

13.45 - 15.45	Poster Session 1 - All posters with an even number will be presented		Alfa, Beta
15.45 - 17.45	Parallel Sessions		
	<b>Parallel Session 4: Solid-state NMR 1</b> Chair: Markus Weingarth <i>Room: Blauw</i>	<b>Parallel Session 5: Computation 1</b> Chair: Jeff Hoch <i>Room: Wit</i>	<b>Parallel Session 6: Small molecules / low field</b> Chair: Camilla Terenzi <i>Room: Rood</i>
15.45	IN007 Innovations in Protein Solid-state NMR using Ultra-fast MAS and its Applications to Amyloid-beta Fibrils <i>Yoshitaka Ishii, Japan</i>	IN009 Beyond the piecewise-constant approximation: efficient simulation of shaped pulses <i>Ilya Kuprov, United Kingdom</i>	IN011 Dissolution dynamic nuclear polarization opens new perspectives for metabolomics <i>Patrick Giraudeau, France</i> 
16.15	PT010 Nitrogen (14N/15N)-Hydrogen MAS NMR Two-Dimensional Correlation Spectroscopy: Developing Methods for Pharmaceutical Applications <i>Steven Brown, UK</i>	PT013 Evaluation of Simulated RDC, NOE and 3J Data to Determine the Configuration of Flexible Molecules <i>Ulrich Sternberg, Germany</i>	PT016 Ultralow-field NMR detection of photochemically induced dynamic nuclear polarization <i>Kirill Sheberstov, France</i>
16.55	PT012 Recent developments in NMR of quadrupolar nuclei in solids <i>Jean Paul Amoureux, France</i>	PT015 Automated chemical shift assignment and protein structure determination with the deep learning method ARTINA <i>Piotr Klukowski, Switzerland</i>	PT018 Zero- and Ultralow-Field NMR Relaxometry <i>Seyma Alcicek, Poland</i>
17.15	IN008 Studying structure, dynamics, and inhibition of intra-membrane proteases in a native-like environment by solid-state NMR <i>Adam Lange, Germany</i>	IN010 Versatile simulations for better understanding of NMR experiments <i>Thomas Vosegaard, Denmark</i>	IN012 Title: t.b.a. <i>Dimitrios Sakellariou, Belgium</i>
17.45 - 18.15	Break		
18.15 - 19.00	Plenary 2		Theatron
	Chair: Chantal Tax PL003 Plenary Speaker 1: Low field MRI: hardware, data acquisition, image processing, sustainability and in vivo applications <i>Andrew Webb, The Netherlands</i>		
TBC	Bruker dinner		Galgenwaard Stadium



## Tuesday 12 July

08.30 - 19.00	Registration	Foyer
08.30 - 19.00	Exhibition	Ruppert Hall

08.45-10.15	Plenary 3	Theatron
	Chair: Enrica Bordigon	
08.45	PL004	Plenary Speaker 1: Microresonators for EPR spectroscopy of nanoliter solutions <i>Veronika Szalai, USA</i>
09.30	PL005	Plenary Speaker 2: Title: t.b.a. <i>Gregg Siegal, The Netherlands</i>

10.15 - 10.45 Break

10.45 - 12.45		Parallel Sessions										
	Parallel Session 7: Materials 1			Room: Blauw	Parallel Session 8: Solution 1			Room: Wit	Parallel Session 9: Exotica			Room: Rood
	Chair: Sharon Ashbrook				Chair: Laura Pieratelli				Chair: Huub de Groot			
10.45	IN013	Operando 7Li NMR Characterization of Electrochemical Cells Using an Optimized Parallel Plate Resonator Gillian Goward, USA			IN015	Exploring the Dynamic World of Membrane Systems and Biocatalysis Manuel Etzkorn, Germany			IN017	Spin noise, RASER, radiation damping in solution NMR Norbert Mueller, Austria		
11.15	PT065	Designing biobased polyamide adhesives: predicting functional properties with solid-state NMR spectroscopy Marianne Gaborieau, France			PT022	Methods for exploring non-Fourier dimensions - from small molecules to proteins Krzysztof Kazimierzuk, Poland			PT025	Light-coupled NMR spectroscopy: NMRtorch and its applications Alexander Golovanov, United Kingdom		
11.35	PT020	59Co Internal Field NMR: Using the magnetic properties of cobalt nanoparticles to study catalytic processes Pascal Scholzen, France			PT023	New NMR methods for structural analysis of fluorinated systems, Coral Mycroft, UK			PT026	Towards applications of β-NMR at CERN Beatrice Karg, Switzerland		
11.55	PT021	Revealing defects in nanoparticles using very-high-field NMR of quadrupolar nuclei Olivier Lafon, France			PT024	Activation and allosteric regulation of HtrA proteases revealed by solution NMR spectroscopy Björn Burmann, Sweden			PT028	Adaptive Magnetic Resonance Assaf Tal, Israel		
12.15	IN014	Solid-state and in situ NMR spectroscopic studies of flexible metal-organic frameworks Eike Brunner, Germany			IN016	Structural studies of intrinsically disordered proteins with cross-correlated relaxation Anna Zawadzka-Kazimierzuk, Poland			IN018	Delocalized long-lived states in aliphatic chains excited by polychromatic spin-lock induced crossing (poly-SLIC). Geoffrey Bodenhausen, France		

12.45 - 13.45 Lunch

Lunch Symposium JEOL

Megaron

## Tuesday 12 July - continued

13.45 - 15.45	Poster Session 2 - All posters with an odd number will be presented		<i>Alfa, Beta</i>
15.45 - 17.45	Tutorials		<i>Theatron</i>
	Chair: Enrica Bordignon		
15.45	TU001	Tutorial Speaker 1: MRI hardware and image reconstruction <i>Lawrence Wald, USA</i>	
16.25	TU002	Tutorial Speaker 2: Tissue microstructure imaging with diffusion MRI <i>Chantal Tax, The Netherlands</i>	
17.05	TU003	Tutorial Speaker 3: Imaging metabolism with <sup>13</sup> C and <sup>2</sup> H labelled substrates <i>Kevin Brindle, United Kingdom</i>	
17.45 - 18.15	Break		
18.15 - 19.00	Plenary 4		<i>Theatron</i>
	Chair: Hartmut Oschkinat		
	PL006	Plenary Speaker 1: NMR spectroscopy to study dynamics of small molecules and proteins <i>Christian Griesinger, Germany</i>	

## Wednesday 13 July

08.30 - 19.00	Registration	Foyer
08.30 - 19.00	Exhibition	Ruppert Hall

8.45 - 10.15	Plenary 5	Theatron
	Chair: Alexandre Bonvin	
08.45	PL007	Plenary Speaker 1: NMR experiments and biomolecular simulations: A perfect match? <i>Kresten Lindorf Larsen, Denmark</i>
09.30	PL008	Plenary Speaker 2: A tale of broad and narrow lines – fast MAS solid-state NMR of viral proteins <i>Anja Bockmann, France</i>

10.15 - 10.45 **Break**

10.45 - 12.45		Parallel Sessions							
	Parallel Session 10: Hyperpolarization		Room: Blauw	Parallel Session 11: Computation 2		Room: Wit	Parallel Session 12: Para NMR		Room: Rood
	Chair: Sammi Jannin			Chair: V. Orekhov			Chair: M. Ubbink		
10.45	IN019	Decoding the Structural Complexity of Supported Molecular Catalysts by DNP Surface Enhanced Solid-State NMR <i>Anne Lesage, France</i>		IN033	The Enduring and Emerging Value of BMRB <i>Jeff Hoch, USA</i>		IN023	Lessons from intrinsic paramagnetic tensors and application to high-energy sparsely populated protein states <i>Daniel Häussinger, Switzerland</i>	
11.15	PT029	Fine optimization of a dissolution-DNP experimental setting for NMR of metabolic samples at natural abundance <i>Arnab Dey, France</i>		PT050	Quadratic spacing of effective gradient area for spatially encoded diffusion NMR <i>Rituraj Mishra, France</i>		PT035	Machine learning-based refinement of the metal coordination sphere in paramagnetic metalloproteins by pseudocontact shifts <i>Giacomo Parigi, Italy</i>	
11.35	PT030	Isotopological fingerprinting via 1H/D scrambling identifies SABRE hyperpolarization catalysts <i>Ewoud Vaneekhaute, Belgium</i>		PT051	RApid Metabolic Identifier for 1D PM-TOCSY (RaMIT) <i>Shankararama Sharma, India</i>		PT036	Utilization of solid-state NMR to determine the local magnetic susceptibility <i>Ridvan Ince, France</i>	
11.55	PT031	The AsymPol family: a whole set of highly efficient DNP polarizing agents. <i>Sabine Hediger, France</i>		PT052	Dynamical Xe NMR modelling in molecular and materials cavities <i>Perttu Lantto, Finland</i>		PT037	Solution state NMR reveals insights into the gelation mechanism of paramagnetic metal-coordinated hydrogels. <i>Valeria Gabrielli, Italy</i>	
12.15	IN020	Mixed-valence Polarizing Agents for Overhauser Effect DNP in Insulating Solids <i>Svetlana Pylaeva, The Netherlands</i>		IN034	Analysis of sidechain dynamics using slow-relaxing methyl quadruple-quantum coherences <i>Chris Waudby, United Kingdom</i>		IN024	Site-specific labelling of proteins with phenylsulfonyl-pyridine tags for paramagnetic NMR <i>Xun-Cheng Su, China</i>	

12.45 - 13.45 **Lunch**

Lunch Symposium Magritek

Megaron

## Wednesday 13 July - continued

13.45 - 15.45		Poster Session 3 All posters will be presented		Alfa, Beta							
15.45 - 17.45		Parallel Sessions									
		Parallel Session 13: Materials 2 Chair: Arno Kentgens		Room: Blauw	Parallel Session 14: Solution 2 Chair: Oscar Millet		Room: Wit	Parallel Session 15: Metabolomics Chair: John van Duynhoven		Room: Rood	
15.45	IN025	Investigating Structure and Dynamics in Solar Thermal Fuels by Solid-State NMR <i>John Griffin, United Kingdom</i>			IN027	Improved pulse sequences with respect to sensitivity, resolution, and bandwidth <i>Burkhard Luy, Germany</i>			IN029	Protein Biophysics by NMR in Silico and in Silica <i>Rafael Brueschweiler, USA</i>	
16.15	PT038	Formation and evolution of nanoscale calcium phosphate precursors under biomimetic conditions <i>Ludovica Martina Epasto, Austria</i>			PT041	GEMSTONE: ultra-selective NMR methods for complex spectra <i>Emma Gates, United Kingdom</i>			PT044	Deuterium metabolic imaging of human gastric emptying and hepatic and renal glucose metabolism at 7T <i>Ayhan Gursan, The Netherlands</i>	
16.35	PT039	Revealing Carbon Capture Chemistry by 17O NMR Spectroscopy <i>Suzi Pugh, United Kingdom</i>			PT042	Broadband effects of radiation damping during homonuclear total correlation mixing <i>Philippe Pelupessy, France</i>			PT045	Parahydrogen hyperpolarization in chemical analysis of biological samples <i>Indrek Reile, Estonia</i>	
16.55	PT067	Insights into Novel Supported Ionic Liquids Phase Catalysts by Solid-State NMR spectroscopy <i>Dorotheau Wisser, Germany</i>			PT043	Long-lived states and coherences for magnetisation transfer via Overhauser and exchange effects in biomolecules <i>Paul Vasos, Romania</i>			PT046	COVID-19 metabolic progression and disease prognosis as investigated by NMR metabolomics <i>Oscar Millet, Spain</i>	
17.15	IN026	Title: t.b.a. <i>Luis Mafra, Portugal</i>			IN028	Ultrafast relaxation and diffusion correlation and exchange measurements <i>Ville-Veikko Telkki, Finland</i>			IN030	Title: t.b.a. <i>Alia Matysik, The Netherlands</i>	
17.45 - 18.15		Break									
18.15 - 19.00		Plenary 6		Theatron							
		Chair: Kendra Frederick									
	PL009	Plenary Speaker 1: Time Domain and High Frequency DNP Experiment <i>Bob Griffin, USA</i>									

**Parallel Session 15: Metabolomics** *Room: Rood*

Chair: John van Duynhoven

IN029 Protein Biophysics by NMR in Silico and in Silica  
*Rafael Brueschweiler, USA*

PT044 Deuterium metabolic imaging of human gastric emptying and hepatic and renal glucose metabolism at 7T  
*Ayhan Gursan, The Netherlands*

PT045 Parahydrogen hyperpolarization in chemical analysis of biological samples  
*Indrek Reile, Estonia*

PT046 COVID-19 metabolic progression and disease prognosis as investigated by NMR metabolomics  
*Oscar Millet, Spain*

IN030 Title: t.b.a.  
*Alia Matysik, The Netherlands*



## Thursday 14 July

08.30 - 19.00	Registration	Foyer
08.30 - 16.30	Exhibition	Ruppert Hall
8.45 - 10.15	Plenary 7	Theatron
	Chair: Guido Pintacuda	
08.45	PL010	Plenary Speaker 1: Integrative Structural Biology of Protein Assemblies: Challenges and Opportunities for Magnetic Resonance <i>Tatyana Polenova, USA</i>
09.30	PL011	Plenary Speaker 2: Design and construction of mobile, small scale devices for MRI and NMR of plants in the field <i>Carel Windt, Germany</i>

10.15 - 10.45 **Break**

10.45 - 12.45		Parallel Sessions								
		<b>Parallel Session 16: Bio NMR 2</b> Chair: Manuel Etzkorn		<i>Room: Blauw</i>	<b>Parallel Session 17: Hardware</b> Chair: Jennifer Mathies		<i>Room: Wit</i>	<b>Parallel Session 18: MRI</b> Chair: Daniel Topgaard		<i>Room: Rood</i>
10.45	IN031	Towards in-cell NMR spectroscopy in physiologically defined cellular states <i>Lukas Trantirek, Czech Republic</i>			IN021	Designing artificial materials for efficient local signal increase at ultra-high field human MRI <i>Rita Schmidt, Israel</i>			IN035	Non-local rheo-MRI of industrially-relevant particulate fluids <i>Camilla Terenzi, The Netherlands</i>
11.15	PT047	Protein- and ligand-observed 19F NMR spectroscopy in human cells <i>Enrico Luchinat, Italy</i>			PT032	HYPNOESYS: Hyperpolarization in Liquid-State NMR Spectroscopy using Optically Polarized Crystals <i>Tim Eichhorn, Germany</i>			PT053	In-vivo Diffusion Tensor Imaging of the mouse abdomen using a driven-equilibrium approach to spatial encoding <i>Sónia Gonçalves, Portugal</i>
11.35	PT048	Atomic interrogation of proteins within intact nuclei by DNP-supported solid-state NMR <i>David Beriashvili, The Netherlands</i>			PT033	Nuclear Magnetic Resonance over nine orders of magnitude in the magnetic field <i>Laurynas Dagys, United Kingdom</i>			PT054	Massively multidimensional diffusion MRI: from concepts to restriction sensitive and sparsely-sampled acquisition <i>Maxime Yon, Sweden</i>
11.55	PT049	High sensitivity NMR for structural determination of neurodegenerative disease-associated proteins inside cells <i>Kendra Frederick, USA</i>			PT034	Optimizing hairpin coils for metabolomic analyses <i>Bing Wu, The Netherlands</i>			PT055	Clinical applications of sodium TQ/TPPI spectroscopy and microimaging: The case of Type 2 Diabetes Mellitus <i>Galina Pavlovskaya, United Kingdom</i>
12.15	IN032	Unspinning chromatin: studying nucleosome structure, dynamics and interactions by NMR <i>Hugo van Ingen, The Netherlands</i>			IN022	Integrating Dissolution DNP - Hyperpolarized computation to characterize complex systems <i>Dennis Kurzbach, Austria</i>			IN036	Prospectively triggering cardiac MRI by sensing the modulation of a magnetic Pilot Tone <i>Peter Speier, Germany</i>

12.45 - 13.45 **Lunch**

Industry lunch DSM and Magritek

Megaron

## Thursday 14 July - continued

13.45 - 15.45		Parallel Sessions					
		<b>Parallel Session 19: Solid state NMR 2</b> Chair: Patrick van der Wel		<b>Parallel Session 20: Hyperpolarization &amp; EPR</b> Chair: Veronika Szalai		<b>Parallel Session 21: Small molecules &amp; drug discovery</b> Chair: Laura Castanar - Acedo	
		<i>Room: Blauw</i>		<i>Room: Wit</i>		<i>Room: Rood</i>	
13.45	IN037	Using solid-state NMR spectroscopy to understand biological tissues in health and disease <i>Melinda Duer, United Kingdom</i>		IN039	Shining a Light on Electron Spin Resonance: Light-induced Pulsed Dipolar Spectroscopy <i>Alice Bowen, United Kingdom</i>	IN041	Novel Multifrequency STD NMR Tools to gain 3D Structural Information on Weak Protein-Ligand Complexes <i>Jesus Angulo, Spain</i>
14.15	PT056	DNP on membrane proteins: Channelrhodopsin-2, the Cannabinoid Receptor 2 and application of AsymPolPOK <i>Johanna Becker-Baldus, Germany</i>		PT059	The C-terminal domains of yeast Hsp90 in vitro and in cells <i>Angeliki Giannoulis, Israel</i>	PT062	Enabling high throughput fragment screening with hyperpolarized NMR <i>Felix Torres, Switzerland</i>
14.35	PT057	Diamond Rotors for DNP MAS NMR <i>Natalie Golota, USA</i>		PT060	The predicted structure of a pathogen surface protein validated by pulse dipolar EPR <i>Bela Bode, United Kingdom</i>	PT063	Unravelling the novel mode of action of Teixobactin using solid-state NMR <i>Rhythm Shukla, The Netherlands</i>
14.55	PT058	Fast-MAS NMR structure elucidation of fully protonated proteins via innovations for assignment and distance information <i>Rasmus Linser, Germany</i>		PT061	Solid-like Dynamic Nuclear Polarization Observed in the Fluid Phase of Lipid Bilayers at 9.4 T <i>Andrei Kuzhelev, Germany</i>	PT064	Binding of the clinical drug candidate anle138b to lipid-induced $\alpha$ -synuclein fibrils <i>Leif Antonschmidt, Germany</i>
15.15	IN038	A continuous approach to Floquet theory for pulse-sequence optimization in solid-state NMR <i>Mathias Ernst, Switzerland</i>		IN040	Nuclear pair electron spin echo envelope modulation <i>Gunnar Jeschke, Switzerland</i>	IN042	Title: Automated peak picking, and uSTA <i>Andy Baldwin, United Kingdom</i>

15.45 - 16.15 **Break**

## Thursday 14 July - continued

16.15 - 18.30	Plenary and closing	Theatron
	Chair: LOC & Beat Meier	
16.15	<i>Tatyana Polenova JMR</i>	
16.20	IES president, <i>Songji Han</i>	
16.25	Ampere video prize, <i>S. Hiller</i>	
16.30	Concluding remarks, <i>Thomas Prisner</i>	
16.35	Concluding remarks, <i>Anja Bockmann</i>	
16.40	Concluding remarks, LOC EUROMAR 2022	
16.50	EUROMAR 2023	
17.00	PL012 Plenary Speaker 1: Optically-pumped NMR of CdTe – a System for Studying the “Spin Bath” of Dilute Spins <i>Sophia Hayes, USA</i>	
17.45	PL013 Plenary Speaker 2: Classical and modern ways of exploiting the information content of paramagnetic observables <i>Claudio Luchinat, Italy</i>	
18.30	Closing	
19.30 - 00.00	Gala dinner	Tivoli Vredenburg

**Friday 15 July**

<b>09.00 - 15.00</b>	<b>Satellite meeting Magnetic Resonance at Ultra-High Field</b>	<i>Theatron</i>
09.00	Opening	
09.05	Beat Meier (ETH Zurich)	
09.30	Nils Alexander Lakomek (Düsseldorf University /BMFZ Julich)	
09.55	Siva Veeramuthu Natarajan (Leiden University)	
10.10	Jeanine Prompers (Utrecht University) & Rico Singer (Leiden University)	
<b>10.25 - 10.45</b>	<b>Coffee Break</b>	
10.45	Enrico Luchinat (CERM, Florence University)	
11.10	Christian Griesinger & Loren Andreas (MPI Göttingen)	
11.35	Jennifer Gomez (Nijmegen University)	
11.50	Salima Bahri (Utrecht University)	
<b>12.15 - 12.45</b>	<b>Festive Program</b>	
<b>12.45 - 13.45</b>	<b>Lunch</b>	
13.45	Maksim Mayzel (Bruker)	
14.10	Robert Griffin (MIT)	

# Posters

Paper #	Title	Presenting Author	Country	Theme	Day
PO001	Combining Solution- and Solid-State NMR provides insights into the binding of Microtubule-Associated Proteins to Microtubules	Agnes Adler	The Netherlands	01. Bio NMR	Tuesday
PO002	Site-specific recognition of SARS-CoV-2 nsp1 protein with a tailored titanium dioxide nanoparticle	Peter Agback	Sweden	01. Bio NMR	Monday
PO003	Novel NMR Assignment strategy for IDPs and large proteins containing disordered domains	Tatiana Agback	Sweden	01. Bio NMR	Tuesday
PO004	Structural insights into Biofilm Forming Functional Amyloids	Umit Akbey	USA	01. Bio NMR	Monday
PO005	Investigating the Dysfunction of DNAJB6 Co-chaperon Caused by Myopathy - LGMD1D Disease Mutations	Meital Avraham	Israel	01. Bio NMR	Tuesday
PO006	Atomic resolution insights into pH change induced deprotonation events in A $\beta$ (1-42) amyloid fibrils	Nina Becker	Germany	01. Bio NMR	Monday
PO007	Solid-state NMR studies of YidC – a membrane insertase and chaperone	Ajit Kumar Bishoyi	The Netherlands	01. Bio NMR	Tuesday
PO008	Studying GPCRs in native environments by combining specific pair labeling and solid-state NMR	Iulia Bodnariuc	The Netherlands	01. Bio NMR	Monday
PO009	Proline cis/trans Isomerization in Intrinsically Disordered Proteins	Andrea Bodor	Hungary	01. Bio NMR	Tuesday
PO010	Understanding the Structural Basis of Protein Splicing Mechanism using Solution NMR Spectroscopy and MD Simulations	Soumendu Boral	India	01. Bio NMR	Monday
PO011	Heterologous interaction characterization of Hepatitis B Virus core protein by NMR	Mathilde Briday	France	01. Bio NMR	Tuesday
PO012	NMR studies of Dengue virus capsid protein and its interaction with RNA	Louis Brigandat	France	01. Bio NMR	Monday
PO013	Mechanism of tau R3 aggregation and inhibition revealed by NMR-based chemical kinetics	Virginia Casablancas-Antras	United Kingdom	01. Bio NMR	Tuesday
PO014	A litmus test for classification of recognition mechanisms of transiently binding proteins	Kalyan Chakrabarti	India	01. Bio NMR	Monday
PO015	A NMR look at an engineered PET depolymerase	Cyril Charlier	France	01. Bio NMR	Tuesday
PO016	Screening novel mammalian expression systems and isotope labeling schemes for in-cell NMR studies.	Hélène Chérot	France	01. Bio NMR	Monday
PO018	Long-range contacts in biomolecular complexes serially enhanced by cross relaxation and rotational resonance under MAS-DNP	Björn Corzilius	Deutschland	01. Bio NMR	Monday
PO019	Circularized MSP nanodiscs show improved biophysical properties that enable NMR studies of challenging membrane proteins	Ms. Melina Daniilidis	Germany	01. Bio NMR	Tuesday
PO020	The unexpected mode of action of the antibiotic plectasin	Maik Derks	The Netherlands	01. Bio NMR	Monday
PO022	Semi-automatic tool for backbone assignment of large proteins using their pdb structure model.	Adrien Favier	France	01. Bio NMR	Monday
PO023	Design of a glutamine-based single $\alpha$ -helix scaffold to target globular proteins	Jesus Garcia	Spain	01. Bio NMR	Tuesday



PO024	Structural Influence of Pyroglutamylation in an Amyloid $\beta$ (3-42) Fibril Polymorph probed by solid-state NMR	Luis Gardon	Germany	01. Bio NMR	Monday
PO025	Combining high-field solution and solid-State NMR to study membrane protein aggregation: Application to phospholamban	Anamika Gaur	The Netherlands	01. Bio NMR	Tuesday
PO026	Structural snapshots into the life cycle of filamentous phage viruses	Amir Goldbourt	Israel	01. Bio NMR	Monday
PO028	Universal lipid markers for early stage embryos and microtissues	Marco Grisi	Switzerland	01. Bio NMR	Monday
PO029	Phosphorylation as a molecular switch that controls measles nucleocapsid assembly initiation.	Serafima Guseva	France	01. Bio NMR	Tuesday
PO030	Interaction of a protozoan oxidoreductase with a parasite-specific low molecular weight reductant	Jean-Martin Harder	Germany	01. Bio NMR	Monday
PO031	Order in disorder: AUX/IAA protein and its TIR1-Aux/IAA auxin co-receptor system	Arnout Kalverda	United Kingdom	01. Bio NMR	Tuesday
PO032	Allosteric communication in tryptophan synthase studied by ssNMR	Hanna Kavaleuskaya	Germany	01. Bio NMR	Monday
PO033	Molecular basis of GOF missense mutations of NSDs	Vladlena Kharchenko	Saudi Arabia	01. Bio NMR	Tuesday
PO034	Investigating the natural conformation of a coiled-coil calcium sensor protein in solution by NMR	Christian Manuel Kitzler	Austria	01. Bio NMR	Monday
PO035	Exploring the Photocycle Intermediates of a Cyanobacteriochrome by MAS NMR Spectroscopy at Room Temperature	Lisa Köhler	Germany	01. Bio NMR	Tuesday
PO036	Investigating gene transcription modulators inside mitochondrial genes	Michaela Krafčikova	The Netherlands	01. Bio NMR	Monday
PO037	Assessing the applicability of 19F-TRP incorporation for 19F NMR measurements of protein dynamics	Christina Krempf	Germany	01. Bio NMR	Tuesday
PO038	Modulation of c-Src intramolecular fuzzy complex by phosphorylation. A multinuclear NMR approach	Andras Lang	Spain	01. Bio NMR	Monday
PO039	Towards the design of inhibitors against macrolide resistance: Solution and solid-state NMR studies of the ErmB-RNA complex	Francesca Lavore	The Netherlands	01. Bio NMR	Tuesday
PO040	Introducing "Stablelabel" cell-free lysates for reduced NMR label conversion	Roman Levin	Germany	01. Bio NMR	Monday
PO041	Dynamics and interactions in the 410 kDa RNA exosome	Jobst Liebau	Germany	01. Bio NMR	Tuesday
PO042	Kinase mediated desensitization of GPCRs studied at atomic resolution by NMR spectroscopy	Arnelle Löbbert	Switzerland	01. Bio NMR	Monday
PO043	Capturing structure and dynamics in pulmonary surfactant	Joanna Long	United States	01. Bio NMR	Tuesday
PO044	Switching off a GPCR: Watching how GPCR kinases phosphorylate GPCRs at atomic resolution by NMR	Nils Lorz	Switzerland	01. Bio NMR	Monday
PO045	Understanding the mechanism of overcoming drug resistance in Candida spp. via 'on cell' NMR approach	Katarzyna Malec	Wielka Brytania	01. Bio NMR	Tuesday
PO046	Intrinsically Disordered Tardigrade Proteins Self-Assemble into Fibrous Gels in Response to Environmental Stress	Anas Malki	France	01. Bio NMR	Monday
PO047	Uncovering dynamics and an allosteric response in an NRPS cyclization domain	Kenneth Marincin	United States	01. Bio NMR	Tuesday

PO048	Exploring the pH-sensing mechanism of the light-stress regulator protein PsbS and interaction with partner proteins	Anouska van Troost	The Netherlands	01. Bio NMR	Monday
PO049	Structural Characterization of Membrane-driven Aggregation of human islet amyloid polypeptide (hIAPP)	Venus Singh Mithu	Germany	01. Bio NMR	Tuesday
PO050	NMR structure determination of $\gamma$ -Secretase Substrates	Celine Moser	Germany	01. Bio NMR	Monday
PO051	Organismal DNP MAS NMR of Newborn Corals Shows Diet-Dependent Changes in Polysaccharide and Protein Levels	Saja Nasser	Israel	01. Bio NMR	Tuesday
PO052	Towards elucidation of structure and interactions of the SARS-CoV-2 accessory protein ORF7b	Minh-Ha Nguyen	France	01. Bio NMR	Monday
PO053	CHARACTERIZATION OF SARS-COV-2 ORF6 ACCESSORY PROTEIN	Martí Ninot Pedrosa	France	01. Bio NMR	Tuesday
PO054	Assignment methodology and dynamics study of the pre-let7 miRNA	Sirine Nouri	France	01. Bio NMR	Monday
PO055	Yin and Yang: The intricate structural relationship of NusA and the translesion DNA-polymerase IV (DinB)	Damasus Okeke	Sweden	01. Bio NMR	Tuesday
PO056	Mechanism of B.subtilis biofilm filament formation and proteins in outer membranes of E.coli	Hartmut Oschkinat	Germany	01. Bio NMR	Monday
PO057	Mechanistic insight into the conformational ensemble of IDPs upon interaction with globular protein	Rajlaxmi Panigrahi	India	01. Bio NMR	Tuesday
PO058	Impact of post-translational modifications and disease-related mutations on the structural dynamic properties of cytochrome c	Gonzalo Pérez-Mejías	Spain	01. Bio NMR	Monday
PO059	The Chaperone Trigger Factor's Interactions with Client Proteins	Alexandra Polyakova	Switzerland	01. Bio NMR	Tuesday
PO060	Linear discriminant analysis reveals hidden patterns in NMR chemical shifts of intrinsically disordered proteins	Paulina Putko	Poland	01. Bio NMR	Monday
PO061	Dbp proteins and GAGs: insights into binding motifs of adhesins from European Borrelia	Adriana Rathner	Austria	01. Bio NMR	Tuesday
PO062	Characterizing excited states in the ribosome using relaxation dispersion NMR	Magdalena Riad	Sweden	01. Bio NMR	Monday
PO063	Modulation of Alzheimer's disease Abeta(1-40) fibril polymorphism by the small heat shock protein alpha-B-crystallin	Natalia Rodina	Germany	01. Bio NMR	Tuesday
PO064	NMR studies of mini-G proteins and their interaction with $\beta_1$ adrenergic receptors	Marco Max Ruckstuhl	Switzerland	01. Bio NMR	Monday
PO065	High-sensitivity ssNMR studies of the Schizophyllum commune cell wall	Adil Safeer	The Netherlands	01. Bio NMR	Tuesday
PO066	Regulation of Nedd4 family E3 ubiquitin ligases through auto-inhibition	Alexander Schmalix	Germany	01. Bio NMR	Monday
PO067	An Integrated NMR and XL-MS Approach to Improve the Structural Ensemble of Membrane Bound $\alpha$ -Synuclein	Thomas Schwarz	Austria	01. Bio NMR	Tuesday
PO068	Phospho-dependent BRCA2 recruitment in KIF2C condensates during mitosis	Anastasiia Skobelkina	France	01. Bio NMR	Monday
PO069	Elucidating the Tau-Microtubule interaction by NMR spectroscopy	Hanneke Smedes	The Netherlands	01. Bio NMR	Tuesday
PO070	Molecular Insights into Canonical Phytochromes by DNP MAS NMR	Chen Song	Germany	01. Bio NMR	Monday
PO071	Solution-state NMR reveal dynamics in the 142 kDa exoribonuclease Xrn1	David Stelzig	Germany	01. Bio NMR	Tuesday

PO072	Structural dynamics of the intrinsically disordered SNARE protein SNAP25 in its pre-fusion conformation	Tobias Stief	Germany	01. Bio NMR	Monday
PO073	Observing the local anisotropy of protein dynamics using solid-state NMR and Molecular Dynamics	Ben Tatman	United Kingdom	01. Bio NMR	Tuesday
PO074	ARIA2C Modifying ARIA2 to Use XPLOR-NIH for Structure Calculation	Gary Thompson	United Kingdom	01. Bio NMR	Monday
PO075	Looking at dynamic mARN-miARN interactions by 19F-NMR spectroscopy	Laura TROUSSICOT	France	01. Bio NMR	Tuesday
PO076	Specific lipid interactions in complex membranes at high-resolution	Roy Van Beekveld	The Netherlands	01. Bio NMR	Monday
PO077	Conformational dynamics of W71A, E78Q mutant from BCX probed by relaxation dispersion NMR	Sivanandam Veeramuthu Natarajan	The Netherlands	01. Bio NMR	Tuesday
PO078	Revealing the role of intrinsically disordered protein regions in the Non-Homologous End-Joining pathway by NMR	Duc-Duy VU	France	01. Bio NMR	Monday
PO079	MAS NMR structural study of the FAT10 N-domain at 800 MHz	Charlotte Weiss	Germany	01. Bio NMR	Tuesday
PO080	Disaggregation of amyloid fibres by the human HSP70 chaperone machinery	Anne Wentink	The Netherlands	01. Bio NMR	Monday
PO081	Structure and dynamics of the TRPV1-V4 ion channel N-terminal IDRs as cellular signaling hubs	Christoph Wiedemann	Germany	01. Bio NMR	Tuesday
PO082	Determining in-situ membrane protein dynamics using solid-state NMR and MD simulation	Jayasubba Reddy Yarava	Germany	01. Bio NMR	Monday
PO083	Influence of the N-terminal intrinsically disordered region of the SARS-CoV-2 nucleocapsid protein on phase separation	Milan Zachrdla	Germany	01. Bio NMR	Tuesday
PO084	Exploring how ligands, G proteins, and arrestins allosterically modulate GPCR conformational dynamics	Joshua Ziarek	United States	01. Bio NMR	Monday
PO085	Binding of a periplasmic transporter system to the peptidoglycan layer	Maximilian Zinke	France	01. Bio NMR	Tuesday

PO086	Path-Sum method in comparison to step-wise density Matrix evolution	Enikő Baligács	France	02. Computation	Monday
PO087	Using deep learning for first-order shimming	Moritz Becker	Germany	02. Computation	Tuesday
PO088	NMR Studies of Intermolecular Interactions between Solifenacin and Chemical Derivatizing Agents	Artur Brzezicki	Poland	02. Computation	Monday
PO089	A SIMULATION FRAMEWORK FOR MAGNETIC SUSCEPTIBILITY INDUCED RELAXATION OF SPINS DIFFUSING IN POROUS MEDIA	Topaz Cartlidge	United Kingdom	02. Computation	Tuesday
PO090	Conformational Selection of Vasopressin upon V1a Receptor Binding	Kateryna Che	Austria	02. Computation	Monday
PO092	RelCalc – A python engine for evaluating relaxation rates symbolically	James Eaton	United Kingdom	02. Computation	Monday
PO093	A Deep Ensemble Learning Method for Automatic Classification of Multiplets in 1D NMR Spectra	Giulia Fischetti	Italy	02. Computation	Tuesday
PO094	Parametric Estimation of NMR data using NMR-EsPy	Simon Hulse	United Kingdom	02. Computation	Monday

PO095	Unpicking the neural networks of DEERNet	Tajwar Choudhury	United Kingdom	02. Computation	Tuesday
PO096	Moving magnetic resonance simulations away from piecewise-constant Hamiltonian approximations	Anupama Acharya	United Kingdom	02. Computation	Monday
PO097	Hyperfine chemical shift in host-guest systems of Ru(III) with macrocycles	Petra Pikulová	Czech Republic	02. Computation	Tuesday
PO098	A Simulation Framework to Predict the Relaxation of Nuclear Spins Diffusing in Porous Media	Giuseppe Pileio	United Kingdom	02. Computation	Monday
PO099	Deconvolution of Uncorrected High Dynamic Range 1H NMR Spectra: A Physics-Informed Deep Autoencoder Approach	Nicolas Schmid	Switzerland	02. Computation	Tuesday
PO100	Leave the desktop behind with NMR Online!	Simon Skinner	United Kingdom	02. Computation	Monday
PO101	Interplay of fast and slow motion in HET-s(218-289) characterized via NMR relaxation and MD simulation	Albert Smith-Penzel	Germany	02. Computation	Tuesday
PO102	Finite Element Method Modelling of Iron-Oxide Nanoparticle Heat Production Under Low Radio Frequency Field Conditions	Serhat ilgaz Yoner	Turkey	02. Computation	Monday
PO103	Unraveling a Ligand-Induced Twist of a Homodimeric Enzyme by Pulsed Electron–Electron Double Resonance	Dinar Abdullin	Germany	03. EPR/ESR	Tuesday
PO104	EPR as a tool for investigating polyaromatic deposits in zeolite catalysts	Mikhail Agrachev	Switzerland	03. EPR/ESR	Monday
PO105	Exploring pulsed Dynamic Nuclear Polarization with Fourier-Synthesized XiX	Gian-Marco Camenisch	Switzerland	03. EPR/ESR	Tuesday
PO106	Laplace inverted pulsed EPR relaxation to study polymer electrode/Conductive carbon contact in Li-ion battery	Davis Thomas Daniel	Germany	03. EPR/ESR	Monday
PO107	Mapping the binding orientation of MeCP2 to strand-symmetrically and asymmetrically modified CpG dyads	Jessica Dröden	Germany	03. EPR/ESR	Tuesday
PO108	Benchtop EPR Spectroscopy of engineered metal oxides enables Integrated Testing Strategy that Reduces Animal Testing	Derek Elam	Germany	03. EPR/ESR	Monday
PO109	PELDOR on fully deuterated RNA	Burkhard Endeward	Germany	03. EPR/ESR	Tuesday
PO110	Influence of Spin Label Conformer Ensembles on Pulsed Dipolar EPR Distance Distributions	Tobias Hett	Germany	03. EPR/ESR	Monday
PO111	Investigation of manganese doped ferroelectric [NH <sub>4</sub> ][Zn(HCOO) <sub>3</sub> ] formate framework using EPR spectroscopy	Vidmantas Kalendra	Lithuania	03. EPR/ESR	Tuesday
PO112	Determination of Hyperfine Coupling and Chemical Shielding parameters through Bayesian optimization from 19F-ENDOR spectra	Annemarie Kehl	Germany	03. EPR/ESR	Monday
PO113	Characterization of a ground-state triplet vinylidene	Yury Kutin	Germany	03. EPR/ESR	Tuesday
PO114	Optimization of Rapid Frequency Scan EPR Experiments at High Magnetic Fields	Andriy Marko	Czech Republic	03. EPR/ESR	Monday
PO115	An insight in the structural dynamics of UreG in cellular environment: a SDSL-EPR study	Annalisa Pierro	Germany	03. EPR/ESR	Tuesday
PO116	Modelling Conformational Flexibility in a Spectrally Addressable Multi-Spin Molecular Qubit	Ciarán Rogers	United Kingdom	03. EPR/ESR	Monday

PO117	Peptide-RNA Coacervates as a Cradle for the Evolution of Folded Domains	Manas Seal	Israel	03. EPR/ESR	Tuesday
PO118	Distance measurements reveal dynamics of monomer reshuffling in G-quadruplexes	Victor Selve	Germany	03. EPR/ESR	Monday
PO119	ESEEM spectroscopy of methyl group quantum tunneling in Co-doped dimethylammonium zinc formate	Mantas Simenas	Lithuania	03. EPR/ESR	Tuesday
PO120	The global conformational equilibrium of the kinase Akt1 monitored by DEER spectroscopy and multilateration	Juliane Stehle	Germany	03. EPR/ESR	Monday
PO121	Parahydrogen-based Hyperpolarization of Biomolecules via Chemical Exchange	Seyma Alcicek	Poland	04. Hyperpolarization	Tuesday
PO122	Improving NMR sensitivity with microcoil-based Photo-CIDNP hyperpolarization	Sander Baas	The Netherlands	04. Hyperpolarization	Monday
PO123	Deuteron-decoupled singlet NMR in the microtesla regime for the generation of hyperpolarised agents	Christian Bengs	United Kingdom	04. Hyperpolarization	Tuesday
PO124	The Role of Methyl Dynamics in DNP	Thomas Biedenbänder	Germany	04. Hyperpolarization	Monday
PO125	PHIPNOESY: A System for Intermolecular Nuclear-Overhauser-Effect-Mediated Transfer of Parahydrogen-Induced Polarization	John Blanchard	Germany	04. Hyperpolarization	Tuesday
PO127	Quantum coherences as origin and source for further optimization of signal amplification by reversible exchange	Kai Buckenmaier	Germany	04. Hyperpolarization	Tuesday
PO128	Temperature-Ramped Batch-Mode Spin-Exchange Optical Pumping of Xenon-129 using a 3rd-generation Automated XeUS Hyperpolarizer	Raduanul Chowdhury	United States	04. Hyperpolarization	Monday
PO129	Source suppression and spin dynamics in hyperpolarized liquid state NMR spectroscopy by optically polarized crystals	Federico De Biasi	Switzerland	04. Hyperpolarization	Tuesday
PO130	A triple resonance (e, $^1\text{H}$ , $^{13}\text{C}$ ) probehead for DNP experiments in liquids at 9.4 Tesla	Vasyl Denysenkov	Germany	04. Hyperpolarization	Monday
PO131	Real-time monitoring of rapidly signal-enhanced metabolites in Parkinson disease cell models via PHIP	Yonghong Ding	Germany	04. Hyperpolarization	Tuesday
PO132	Hyperpolarised 2D $^1\text{H}$ - $^1\text{H}$ NMR for the analysis of mixtures	Jean-Nicolas Dumez	France	04. Hyperpolarization	Monday
PO133	Dissolution DNP of complex mixtures using hyperpolarizing polymer (HYPOP) matrices	Théo El Darai	France	04. Hyperpolarization	Tuesday
PO134	Non-intuitive AC field sequences dramatically improve SABRE efficiency	Shannon Eriksson	United States	04. Hyperpolarization	Monday
PO135	Revealing Rubber-silica Interaction in Tire Compound by 2D $^{29}\text{Si}$ - $^{29}\text{Si}$ Solid-State NMR Enhanced by DNP	Yao Fu	France	04. Hyperpolarization	Tuesday
PO136	Solid state DNP-enhanced $^1\text{H}$ NMR signals of $\gamma$ -irradiated samples	Angeliki Giannoulis	Israel	04. Hyperpolarization	Monday
PO137	A Device for the Oxidative Purification of Hyperpolarised Noble Gases after Spin Exchange Optical Pumping	Arthur Harrison	United Kingdom	04. Hyperpolarization	Tuesday
PO138	Microwave heating quantified by EPR near Helium-temperature DNP conditions	Aaron Himmler	Switzerland	04. Hyperpolarization	Monday
PO139	Assisted Co-Ligand SABRE Polarising Keto-Acid Molecules	Wissam Iali	Saudi Arabia	04. Hyperpolarization	Tuesday
PO140	HypFlow - Inexhaustible Spring of Hyperpolarization	Sami Jannin	France	04. Hyperpolarization	Monday



PO141	Reaction monitoring on organic and biological reactions using parahydrogen based hyperpolarization technique	Keunhong Jeong	South Korea	04. Hyperpolarization	Tuesday
PO142	Synthesis of Parahydrogen Derived Singlet State Molecules	Bono Jimmink	The Netherlands	04. Hyperpolarization	Monday
PO143	Low-field $^1\text{H}$ Relaxation via Radical Non-Zeeman Reservoir in Solid Pyruvic Acid	Michael Jurkutat	Germany	04. Hyperpolarization	Tuesday
PO144	Extending Indirect Cross Effect DNP Model with Broadband Irradiation and $T_1\rho$ Anisotropy.	Ilia Kaminker	Israel	04. Hyperpolarization	Monday
PO145	Purified parahydrogen-hyperpolarized fumarate for preclinical in-vivo metabolic magnetic resonance imaging	Stephan Knecht	Germany	04. Hyperpolarization	Tuesday
PO146	Cross-Polarization for Bullet-Dynamic Nuclear Polarization	Hana Kourilova	Germany	04. Hyperpolarization	Monday
PO148	$^{13}\text{C}$ solid-state photo-CIDNP on a flavoprotein embedded in glassy sugar matrix	Patrick Kurler	Germany	04. Hyperpolarization	Monday
PO149	Integrating Dissolution DNP - Hyperpolarized computation to characterize complex systems	Dennis Kurzbach	Austria	04. Hyperpolarization	Tuesday
PO150	Magnetic Resonance Imaging based on spontaneous emission	Sören Lehmkuhl	Germany	04. Hyperpolarization	Monday
PO151	Hybrid BDPA-Nitroxide Polarizing Agents for High-Field, and Variable Temperature MAS DNP	Moreno Lelli	Italy	04. Hyperpolarization	Tuesday
PO152	A pulsed field-independent Phip-SAH method to hyperpolarize $[1-^{13}\text{C}]$ pyruvate in clean water solutions for biomedical applications	Salvatore Mamone	Germany	04. Hyperpolarization	Monday
PO153	Room-temperature Dynamic Nuclear Polarization Enhanced $^{13}\text{C}$ NMR Spectroscopy of Small Biological Molecules in Water	Jiafei Mao	Germany	04. Hyperpolarization	Tuesday
PO154	Spinning Driven Dynamic Nuclear Polarization with Optical Pumping	Frederic Mentink-Vigier	United States	04. Hyperpolarization	Monday
PO155	Third dissolved-phase xenon- $^{129}$ resonance in blood caused by elevated glucose level	Lutoslawa Mikowska	Poland	04. Hyperpolarization	Tuesday
PO156	The Beneficial Instability of Frémy's Salt for Dissolution DNP	Mattia Negroni	Austria	04. Hyperpolarization	Monday
PO158	Inductive detection and coherent manipulation of electronic-nuclear multi-spin clusters	Roberta Pigliapochi	United States	04. Hyperpolarization	Monday
PO159	Bullet-Dissolution Dynamic Nuclear Polarization and Ligand Binding	Pooja Pooja	Germany	04. Hyperpolarization	Tuesday
PO160	Direct Observation of Calcium Carbonate Prenucleation Clusters via Dissolution DNP	Yu Rao	Switzerland	04. Hyperpolarization	Monday
PO161	Experiences with TPPM DNP at 1.2 T	Venkata Subbarao Redrouthu	Germany	04. Hyperpolarization	Tuesday
PO162	Detecting oligopeptides via parahydrogen hyperpolarization	Nele Reimets	Estonia	04. Hyperpolarization	Monday
PO163	Physical mechanisms underlying large $^{31}\text{P}$ enhancements in triphenylphosphine in liquid state DNP	Maik Reinhard	Germany	04. Hyperpolarization	Tuesday
PO164	Rapid SABRE Catalyst Scavenging Using Functionalized Silicas	Thomas Robertson	United Kingdom	04. Hyperpolarization	Tuesday
PO165	Radio Frequency Sweeps at $\mu\text{T}$ Fields for Parahydrogen Induced Polarization of Biomolecules	Alastair Marshall	Israel	04. Hyperpolarization	Tuesday
PO166	Dendritic macromolecules as possible $\text{Cu(II)}$ sensors using nuclear singlet state NMR	Philip Saul	Germany	04. Hyperpolarization	Monday
PO167	Long-lived, transportable reservoir of nuclear polarization used to strongly enhance solution-state NMR signals	Jakob Maximilian Steiner	Switzerland	04. Hyperpolarization	Tuesday

PO168	Nuclear Magnetic Ordering in Naphthalene	Jakob Maximilian Steiner	Switzerland	04. Hyperpolarization	Monday
PO169	Rapid $^1\text{H}$ $^{13}\text{C}$ hyperpolarization transfer via adiabatic field inversion	Quentin Stern	France	04. Hyperpolarization	Tuesday
PO170	DNP juice as skin lotion	Leo Svenningsson	Sweden	04. Hyperpolarization	Monday
PO171	SABRE-enhanced real-time pure shift NMR spectroscopy	Daniel Taylor	United Kingdom	04. Hyperpolarization	Tuesday
PO172	Detection and discrimination of enantiomers via non-hydrogenative parahydrogen Induced Polarization	Marco Tessari	The Netherlands	04. Hyperpolarization	Monday
PO173	Nonlinear Chaotic Dynamics in DNP –Hyperpolarized Spins at 1.2K: Simulation and Experimental Control	Vineeth Francis Thalakkottor Jose Chacko	France	04. Hyperpolarization	Tuesday
PO174	Protein Folding Studies by DNP Enhanced-NMR Spectroscopy in Frozen Solution	Boran Uluca-Yazgi	Germany	04. Hyperpolarization	Monday
PO175	Natural abundance $^{15}\text{N}$ nuclei explain anomalous field dependence in $^1\text{H}$ SABRE experiments	Erik Van Dyke	Germany	04. Hyperpolarization	Tuesday
PO176	Signal Amplification Waveform (SAW) for Enhanced Benchtop $^{15}\text{N}$ NMR Investigations of Ir Organometallic Chemistry	Jingyan Xu	Germany	04. Hyperpolarization	Monday
PO177	Parahydrogen-Induced Polarization Mediated by Metal-Free Biradicaloids and Hydroborane Catalysts	Danila Zakharov	Finland	04. Hyperpolarization	Tuesday
PO178	Advancing Parahydrogen-Induced Polarization Based on the Use of Metal-Free Catalysts: Findings and Perspectives	Vladimir Zhivonitko	Finland	04. Hyperpolarization	Monday

PO179	NMR methods and devices for the characterization of flows and transfers in milli-channels	Feryal Guerroudj	France	05. Hardware	Tuesday
PO181	A cryogen-free 400 MHz MAS system for high resolution Solid State NMR	Eugeny Kryukov	United Kingdom	05. Hardware	Tuesday
PO182	Towards Automated Bullet-Dynamic Nuclear Polarization	Masoud Minaei	Germany	05. Hardware	Monday
PO183	Design and Construction of 14 Tesla DNP / EPR spectrometer	Orit Nir-Arad	Israel	05. Hardware	Tuesday
PO184	Streamlined LN <sub>2</sub> -based triplet DNP polarizer for fast turnaround HYPNOESYS experiments	Jochen Scheuer	Germany	05. Hardware	Monday
PO185	3D Printed Magic-Angle-Spinning Hardware	Jörn Schmedt Auf Der Günne	Germany	05. Hardware	Tuesday
PO186	Design of Cryogenic, 14 Tesla DNP / EPR Probe with Fast Sample Exchange	David Shlomi	Israel	05. Hardware	Monday
PO187	Miniaturized tri-axis biplanar coils for atomic and nuclear spin sensors	Michael Tayler	Spain	05. Hardware	Tuesday
PO188	Planning and Installing a Helium Liquefaction Plant	Markus Voehler	United States	05. Hardware	Monday

PO189	NMR STUDIES OF MULTIFERROIC $\text{XMn}_7\text{O}_{12}$ ( $\text{X} = \text{Sr}, \text{Bi}$ ) AND $\text{BiMn}_3\text{Cr}_4\text{O}_{12}$	Martin Adamec	Czech Republic	06. Materials	Tuesday
PO190	Probing the atomic-level structure of LiPON amorphous electrolytes of microbatteries using solid-state NMR	Racha Bayzou	France	06. Materials	Monday
PO191	NMR studies of intracrystalline dynamics in polyesters	Mohd Afiq Bin Anuar	Germany	06. Materials	Tuesday
PO192	The functionality of Stacking Faults on the Ionic Conductivity of Sulfide Solid Electrolytes	Junchao Chen	The Netherlands	06. Materials	Monday

PO193	Orientation and Dynamics of Water Molecule in Beryl	Vojtěch Chlan	Czech Republic	06. Materials	Tuesday
PO194	Design and Synthesis of Fluorine-Based Nanocrystals for $^{19}\text{F}$ -MRI Applications	Dana Cohen	Israel	06. Materials	Monday
PO195	Investigating the Effects of Post-Synthetically Treated MAPbI <sub>3</sub> Using solid-state NMR and Synchrotron X-ray Diffraction	Jessica Dawber	United Kingdom	06. Materials	Tuesday
PO196	Solid-State NMR Study of Hydrogen Bonding in Mesogenic Ionic Liquids	Sergey V. Dvinskikh	Sweden	06. Materials	Monday
PO198	Magic Angle Spinning Pulsed Field Gradient NMR of Ionic Liquids Confined to Carbon Black	Petrik Galvosas	New Zealand	06. Materials	Monday
PO199	Structural insights into germanium halide perovskites via $^{133}\text{Cs}$ and $^{73}\text{Ge}$ solid-state NMR	Riley Hooper	Canada	06. Materials	Tuesday
PO200	Cation Dynamics and DNP in Hybrid Perovskites	Michael Hope	Switzerland	06. Materials	Monday
PO201	$^{17}\text{O}$ High-Field Solid State-NMR for characterization of hydrogen bonding in pharmaceutical compounds	Dinu Iuga	United Kingdom	06. Materials	Tuesday
PO202	NMR Study of Ion Adsorption in Activated Carbon	Dongxun Lyu	United Kingdom	06. Materials	Monday
PO203	$\text{Li}^+$ Ion Diffusion in Solid State Electrolyte $\text{LiInCl}_6$ measured by $^7\text{Li}$ Liquid State NMR	Sarah Mailhot	Finland	06. Materials	Tuesday
PO204	Harnessing water to enhance quadrupolar NMR spectroscopy and imaging	Ricardo Martinho	The Netherlands	06. Materials	Monday
PO205	Molecular Dynamics in Polymer-Ionic Liquid Systems Studied by Magnetic Resonance Methods	Carlos Mattea	Germany	06. Materials	Tuesday
PO206	Real time monitoring of the through thickness moisture profile of thin sheets using NMR	Jean-Christophe Perrin	France	06. Materials	Monday
PO207	NMR Insights into the impact of Al incorporation on the structure and dynamics of $\beta\text{-Li}_3\text{PS}_4$	Hongtao Qu	The Netherlands	06. Materials	Tuesday
PO208	Moisture-induced $\text{CO}_2$ species in amine-based solid adsorbents: molecular-level study from solid-state NMR and molecular modeling	Mariana Sardo	Portugal	06. Materials	Monday
PO209	Multidimensional Lead Halide Perovskites: Insights into $^{35}/^{37}\text{Cl}$ Chemical Environments Using Solid-state NMR Spectroscopy	Diganta Sarkar	Canada	06. Materials	Tuesday
PO210	Packing of polyanions in polyelectrolyte complexes – a combined PFG and solid-state NMR study	Ulrich Scheler	Germany	06. Materials	Monday
PO211	Rheo NMR - stress response and flow visualization	Ulrich Scheler	Germany	06. Materials	Tuesday
PO212	Application of ssNMR to study structure and dynamics in natural biopolymers	Bhargy Sharma	Singapore	06. Materials	Monday
PO213	Spin isomer conversion in endohedral molecules in $\text{C}_{60}$	Murari Soundararajan	United Kingdom	06. Materials	Tuesday
PO214	Solid-state NMR spectroscopic investigation of supported novel imidazolium-based task-specific ionic liquids for catalytic applications	Cindy Ly Tavera Mendez	Germany	06. Materials	Monday
PO216	Understand the Effect of H-bonding in Photocured Polymer Films using NMR	Bing Wu	The Netherlands	06. Materials	Monday

PO217	A mechanistic understanding of nanoplastic toxicity in the intact zebrafish embryo using HR-MAS NMR	Narmin Bashirova	Germany	07. Metabolomics	Tuesday
PO218	Rapid Metabolomic Profiling by NMR Imaging	Trey Koev	United Kingdom	07. Metabolomics	Monday
PO219	Microcoil NMR and automated segmented-flow sample transfer for target identification and quantification of nanomole quantities	Tatiana Nikolaeva	The Netherlands	07. Metabolomics	Tuesday
PO220	Metabolic characterization of medaka inbred strains - a possible link between genotype und phenotype	Hannah Soergel	Germany	07. Metabolomics	Monday
PO221	Flow encoding established by optimal control RF pulse	Mehrdad Alinaghian Jouzdani	Germany	08. MRI	Tuesday
PO222	Quantitative MR imaging and 2D velocimetry of ethane	Mariia Anikeeva	Germany	08. MRI	Monday
PO224	Characterization of commercial iron oxide clusters as potential Magnetic Resonance Imaging contrast agent	Yves Gossuin	Belgium	08. MRI	Monday
PO225	Investigating turbulence and mixing within the ambr® 15 microbioreactor using operando MRI	Mark I. Grimes	United Kingdom	08. MRI	Tuesday
PO226	Magnetic resonance microimaging methods to access muscle wasting in zebrafish model of Leptin deficiency	Muhamed Nour Hashem Eeza	Germany	08. MRI	Monday
PO227	Use of Flow-Assisted Magnetic Resonance Imaging for Rheological Characterization of Whey Protein/Xanthan Gum Pickering Emulsions	Esmanur İlhan	Turkey	08. MRI	Tuesday
PO228	In vitro 1H MT and CEST MRI of protein breakdown in the stomach	Morwarid Mayar	The Netherlands	08. MRI	Monday
PO229	Microcapillary flow-MRI setup for imaging and quantifying sub-mm confined flow of colloidal dispersions	Klaudia Milc	The Netherlands	08. MRI	Tuesday
PO230	In-situ NMR & MRI characterization of proton exchange membranes for fuel cells	Christine Mrad	France	08. MRI	Monday
PO231	Optimal control design of preparation pulses for higher contrast imaging	Amanda Nicotina	Germany	08. MRI	Tuesday
PO232	Magnetic Resonance Imaging of zebrafish (Danio rerio) at ultra-high magnetic field (1.2 GHz)	Rico Singer	The Netherlands	08. MRI	Monday
PO233	Prospectively triggering cardiac MRI by sensing the modulation of a magnetic Pilot Tone	Peter Speier	Germany	08. MRI	Tuesday
PO235	Novel Multifrequency STD NMR Tools to gain 3D Structural Information on Weak Protein-Ligand Complexes	Jesús Angulo	Spain	09. Small mol. / Drug discovery	Tuesday
PO236	Evaluation of the Benefit and Informing Capability of 2D NMR Experiments for Computer-Assisted Structure Elucidation	Dimitris Argyropoulos	United Kingdom	09. Small mol. / Drug discovery	Monday
PO237	NMR of C60 endofullerenes and endofullerides	George Bacanu	United Kingdom	09. Small mol. / Drug discovery	Tuesday

PO238	Real-time flow NMR monitoring of organic reactions with ultrafast 2D COSY	Margherita Bazzoni	France	09. Small mol. / Drug discovery	Monday
PO239	NMR-based structure elucidation of novel regioisomeric 3(5)-(1H-pyrazol-4-yl)-5(3)-phenyl-1,2-oxazoles obtained from pyrazolo-chalcones	Aurimas Bieliauskas	Lithuania	09. Small mol. / Drug discovery	Tuesday
PO240	Efficient early drug discovery of RNA drug targets using NMR and machine learning	Marcel Blommers	Switzerland	09. Small mol. / Drug discovery	Monday
PO241	Micromolar concentration interaction studies on a benchtop NMR spectrometer with secondarily <sup>13</sup> C-labeled hyperpolarized ligands	Charlotte Bocquelet	France	09. Small mol. / Drug discovery	Tuesday
PO242	Advanced NMR methods for targeting K-Ras using the NMR molecular Replacement and photo – CIDNP	Matthias Bütikofer	Switzerland	09. Small mol. / Drug discovery	Monday
PO244	Scrutiny of the supramolecular structure of bio-based Low Transition Temperature Mixtures by NOESY and PFG-NMR	Fernande Da Cruz	France	09. Small mol. / Drug discovery	Monday
PO245	STD-NMR for ligand design and refinement	Ignacio Delso	United Kingdom	09. Small mol. / Drug discovery	Tuesday
PO246	Investigation of the extraordinary self-assembly of a simple organic salt by multinuclear NMR in liquid-state	Luca Fusaro	Belgium	09. Small mol. / Drug discovery	Monday
PO248	Aggregation of aqueous surfactant mixtures	Ritu Ghanghas	Finland	09. Small mol. / Drug discovery	Monday
PO249	An NMR method for measuring water solubility of organic compounds	Ion Ghiviriga	United States	09. Small mol. / Drug discovery	Tuesday
PO250	Complete Resonance Assignment of a Pharmaceutical Drug by combining DNP-Enhanced Solid-State NMR and DFT calculations	Lydia Gkoura	United Arab Emirates	09. Small mol. / Drug discovery	Monday
PO251	A Pipeline for Accelerating Drug Discovery: Screening and Affinity-Ranking of Fluorinated Ligands with CSAR	Alvar Gossert	Switzerland	09. Small mol. / Drug discovery	Tuesday
PO252	STD-NMR reveals that an arginine-glycosylating SseK1 mutant recovers FADD activity without impacting donor recognition	Thomas Hicks	United Kingdom	09. Small mol. / Drug discovery	Monday
PO253	Increased Protein Dynamics Defines Druggability	Lukasz Jaremko	Saudi Arabia	09. Small mol. / Drug discovery	Tuesday
PO254	Targeting Intrinsically Disordered Regions (IDRs) in Viral Proteins via Molecular Recognition Features (MoRFs) Analysis	Dilmehak Kaur	India	09. Small mol. / Drug discovery	Monday
PO256	Weakly bonded hydrogens in different roles	Jiri Mares	Finland	09. Small mol. / Drug discovery	Monday
PO257	Imaging Saturation Transfer Difference (STD) NMR for measuring Dissociation constants in a single NMR tube	Serena Monaco	United Kingdom	09. Small mol. / Drug discovery	Tuesday
PO258	STRUCTURE AND INTERACTIONS OF AZITHROMYCIN-THIOSEMICARBAZONE CONJUGATES AS SEEN BY NMR	Predrag Novak	Croatia	09. Small mol. / Drug discovery	Monday



PO259	NMR Structure, Dynamics and Interaction of the Proapoptotic Death Receptor 5/ TRAIL-R2 with Synthetic Ligands.	Benoit Odaert	France	09. Small mol. / Drug discovery	Tuesday
PO260	A new suite of simple NMR experiments to assess antimicrobial membrane interactions and permeability.	Jose Ortega-Roldan	United Kingdom	09. Small mol. / Drug discovery	Monday
PO261	NMR assays for the quantification of weak affinity receptor-ligand interactions	Stanislava Panova	United Kingdom	09. Small mol. / Drug discovery	Tuesday
PO262	Low-temperature NOE/ROE Investigation of Intermediates in the Stereoselective Organocatalytic $\alpha$ -Chlorination of Aldehydes	Volker Schmidts	Germany	09. Small mol. / Drug discovery	Monday
PO263	UNDERSTANDING ANTIMICROBIAL ACTIVITY IN LIVE CELLS	Ángela Serrano Sánchez	United Kingdom	09. Small mol. / Drug discovery	Tuesday
PO264	Cross-correlation effects in near equivalent spin-1/2 pairs	James Whipham	United Kingdom	09. Small mol. / Drug discovery	Monday
PO265	Structure-property relations for polymeric micelles loaded with different curcumin derivatives using solid-state NMR spectroscopy	Stephanie Bachmann	Germany	10. SSNMR methods+ appl.	Tuesday
PO266	$^1\text{H}$ -detected Characterization of Highly Flexible Species in Insoluble Samples using Magic Angle Spinning NMR	Salima Bahri	The Netherlands	10. SSNMR methods+ appl.	Monday
PO267	Solid-State NMR of Adsorption in Layered Metal-Organic Frameworks	Chloe Balhatchet	United Kingdom	10. SSNMR methods+ appl.	Tuesday
PO268	Characterisation of backbone conformational heterogeneity in solid-state protein samples by high-dimensional, proton-detected NMR spectroscopy	Ekaterina Burakova	Germany	10. SSNMR methods+ appl.	Monday
PO269	Making the invisible visible: fast-MAS NMR reveals the evasive hepatitis B virus capsid C-terminal domain	Morgane Callon	Switzerland	10. SSNMR methods+ appl.	Tuesday
PO270	ACCURATE STRUCTURE OF CALCIUM CARBONATE HEMIHYDRATE BY DFT-D CALCULATIONS AND SOLID-STATE NMR SPECTROSCOPY.	Romain Chèvre	France	10. SSNMR methods+ appl.	Monday
PO271	Incorporation of the $\text{Ce}^{3+}$ activator ions in $\text{LaAlO}_3$ crystals: EPR and NMR study	Vojtěch Chlan	Czech Republic	10. SSNMR methods+ appl.	Tuesday
PO272	Solid-state NMR studies on heterogeneous catalysis: chemical structure and C1-C2 chemistry	Sangho Chung	Saudi Arabia	10. SSNMR methods+ appl.	Monday
PO273	Uncovering the Dynamics of Surfactants – A Combined $^2\text{H}$ and DNP NMR Approach	Sonja Carina Döller	Germany	10. SSNMR methods+ appl.	Tuesday
PO274	NMR Characterization of dynamics of the efficient light harvesting Chlorosomes of wild type <i>Chlorobaculum tepidum</i> .	Lolita Dsouza	The Netherlands	10. SSNMR methods+ appl.	Monday
PO275	Solid state NMR spectroscopy for investigating the structure and dynamics of $\text{Ca}^{2+}$ cross-linked alginate hydrogels	Mustapha El Hariri El Nokab	The Netherlands	10. SSNMR methods+ appl.	Tuesday
PO276	C-A-S-H chain length of composite cementitious suspensions with high solid fraction: zeta potential and NMR.	João Figueira	Sweden	10. SSNMR methods+ appl.	Monday

PO277	Understanding formation of pharmaceutical co-crystal polymorphs in continuous polymer-assisted mechanochemical processes in-situ using CLASSIC NMR	Anna Gołkowska	Poland	10. SSNMR methods+ appl.	Tuesday
PO278	Homonuclear correlations of half-integer spin quadrupolar nuclei: comparison of DQ-SQ and SQ-SQ approaches	Jennifer Sarely Gómez Badillo	France	10. SSNMR methods+ appl.	Monday
PO279	MAS and solution NMR resonance assignment of Zinc Protoporphyrin IX(ZnPP) photo-sensitizer	Padmaja Kar	India	10. SSNMR methods+ appl.	Tuesday
PO280	Extracting diamagnetic chemical shift tensors parameters in paramagnetic systems with combined SQUID and NMR measurements	Gwendal Kervern	France	10. SSNMR methods+ appl.	Monday
PO282	5D and 4D experiments for near-complete resonance assignment in solid-state NMR	Alexander Klein	Germany	10. SSNMR methods+ appl.	Monday
PO283	Solid-State NMR Study of Novel Hydrogen-Bonded Supramolecular Aggregates	Vytautas Klimavicius	Lithuania	10. SSNMR methods+ appl.	Tuesday
PO284	Studying molecular changes at the cell / extracellular interface with Goldman-Shen experiments	Thomas Kress	United Kingdom	10. SSNMR methods+ appl.	Monday
PO285	Proton-decoupled $^{15}\text{N}$ R1rho in solid proteins: the study of the slow rocking motion.	Alexey Krushelnitsky	Germany	10. SSNMR methods+ appl.	Tuesday
PO287	A Lipid Peroxidase complex of monolysocardiolipin with cytochrome c probed by solid state NMR spectroscopy.	Alessia Lasorsa	The Netherlands	10. SSNMR methods+ appl.	Tuesday
PO288	Protein backbone and side-chains motions by simultaneous measurement of $^1\text{H}$ - $^{15}\text{N}$ / $^{13}\text{C}$ dipolar couplings with fast-MAS NMR	Tanguy Le Marchand	France	10. SSNMR methods+ appl.	Monday
PO289	Molecular elucidation of drug-induced abnormal assemblies of Hepatitis B Virus capsid protein by solid-state NMR	Lauriane Lecoq	France	10. SSNMR methods+ appl.	Tuesday
PO290	Operando NMR for studying the mechanism of electrochemical ammonia synthesis	Ruipeng Luo	The Netherlands	10. SSNMR methods+ appl.	Monday
PO291	Open state and Aromatic Network of the SARS-CoV-2 Envelope Protein Unveiled by $^{19}\text{F}$ ssNMR	Joao Medeiros Silva	United States	10. SSNMR methods+ appl.	Tuesday
PO292	Understanding spatial distribution and crystallization of pharmaceutical cocrystals confined in nanoporous materials using solid-state NMR	Karol Nartowski	Poland	10. SSNMR methods+ appl.	Monday
PO293	Characterization of phosphorus clusters via multiple quantum solid state NMR	Mesopotamia Nowotarski	United States	10. SSNMR methods+ appl.	Monday
PO294	New methods for methyl resonance assignment in solid proteins at Ultra-Fast MAS	Piotr Paluch	Poland	10. SSNMR methods+ appl.	Monday
PO295	Combined use of solution and solid-state NMR data to correctly identify crystal polymorphs	Mohammed Rahman	United Kingdom	10. SSNMR methods+ appl.	Tuesday
PO296	Elucidating the hydration effect on structure and dynamics of HA-extracellular matrix hydrogels using solid-state NMR	Pushpa Rampratap	The Netherlands	10. SSNMR methods+ appl.	Monday

PO297	Solid-State NMR Crystallography Analysis of an Active Pharmaceutical Ingredient under varied conditions	Zainab Rehman	United Kingdom	10. SSNMR methods+ appl.	Tuesday
PO298	Indirect Detected DNP-Enhanced <sup>195</sup> Pt Solid-State NMR Spectroscopy of Catalytic Surfaces	Thomas. C. Robinson	France	10. SSNMR methods+ appl.	Monday
PO299	H-MAS technology and applications update	Ago Samoson	Estonia	10. SSNMR methods+ appl.	Tuesday
PO300	Solid-state NMR spectroscopy of a pre-fibrillar $\alpha$ -Synuclein aggregation intermediate	Vrinda Sant	Germany	10. SSNMR methods+ appl.	Monday
PO301	Solid-state NMR and DNP methods for pharmaceuticals	Judith Schlagnitweit	France	10. SSNMR methods+ appl.	Tuesday
PO302	Characterization of Acid Sites on Supported Ni Catalysts	Mirjam Schröder	Germany	10. SSNMR methods+ appl.	Monday
PO303	Conformational Dynamics and Active Site Ionization of Protein-Water Network of a Prototypical "Rigid" Drug Target	Himanshu Singh	Germany	10. SSNMR methods+ appl.	Tuesday
PO304	Novel paramagnetic metal polarizing agents for site-specific DNP	Florian Taube	Germany	10. SSNMR methods+ appl.	Monday
PO305	Solid-State NMR study of NaGaS <sub>2</sub> and Na <sub>3</sub> GaS <sub>3</sub>	Julien Trebosc	France	10. SSNMR methods+ appl.	Tuesday
PO306	Investigation of the Structure and Dynamics of Amorphous Calcium Carbonate (ACC) by MAS NMR	Sanjay Vinod Kumar	Germany	10. SSNMR methods+ appl.	Monday
PO307	DNP-enhancement for deuterium in studies of protein side-chain dynamics	Liliya Vugmeyster	United States	10. SSNMR methods+ appl.	Tuesday
PO308	Supplementing X-Ray Data of Large Proteins with Solid-State NMR: Case Study of an RNA Helicase	Marco Emanuel Weber	Switzerland	10. SSNMR methods+ appl.	Monday
PO309	Measurement of weak scalar couplings using CPMG like experiments	Timur Yasko	Germany	10. SSNMR methods+ appl.	Tuesday
PO310	Structural Investigations of Liquid-to-Solid Phase Transition by Solid-State NMR Spectroscopy	Johannes Zehnder	Switzerland	10. SSNMR methods+ appl.	Monday
PO311	Disorder in Cesium Lead Halide Nanocrystals	Marcel Aebli	Switzerland	11. Solution NMR - Methodology	Tuesday
PO313	Monolayer-protected gold nanoparticles as tailorable receptors for the NMR chemosensing of neuroblastoma biomarkers	Andrea Cesari	Italy	11. Solution NMR - Methodology	Tuesday
PO314	No more nosey NOE – Fitting of <sup>1</sup> H R1 $\rho$ in the presence of dipolar relaxation	Rubin Dasgupta	Sweden	11. Solution NMR - Methodology	Monday

PO315	Activation of the V2 vasopressin GPCR by combined use of cryoEM, MD and NMR	Hélène Déméné	France	11. Solution NMR - Methodology	Tuesday
PO316	Quantitative band-selective pure shift NMR	Howard Foster	United Kingdom	11. Solution NMR - Methodology	Monday
PO317	Study of supramolecular drug delivery assemblies in $\beta$ -cyclodextrin using singlet states	Upanshu Gangwar	India	11. Solution NMR - Methodology	Tuesday
PO318	Antisymmetric cross-relaxation in cis-difluorodichloroethene	Piotr Garbacz	Poland	11. Solution NMR - Methodology	Monday
PO319	Paramagnetic Guest Exchange Saturation Transfer (ParaGEST) Revealing Hidden Kinetic Features in Supramolecular Host-Guest Systems	Elad Goren	Israel	11. Solution NMR - Methodology	Tuesday
PO320	Combining Variable Temperature and Field: a new approach to understanding dynamic exchange	Jean-Paul Heeb	United Kingdom	11. Solution NMR - Methodology	Monday
PO321	2D Rheo-NMR of PBLG - impact on RDCs and signal-to-noise	Fabian Hoffmann	Germany	11. Solution NMR - Methodology	Tuesday
PO322	Relaxation dispersion on the night-jet: Speeding up to study RNA and DNA dynamics	Julian Ilgen	Sweden	11. Solution NMR - Methodology	Monday
PO324	Low power optimal control pulses improve multidimensional bio-molecular NMR experiments at ultrahigh-field (1.2 GHz) spectrometers	David Joseph	Germany	11. Solution NMR - Methodology	Monday
PO325	Methodological advances for multi-site exchange in Cadherin-11	Hans Koss	United States	11. Solution NMR - Methodology	Tuesday
PO326	Intrinsically disordered proteins interacting with membranes: The vesicular SNARE protein Synaptobrevin-2	Nils-Alexander Lakomek	Germany	11. Solution NMR - Methodology	Monday
PO327	The Ups and Downs of Molecular Interactions by High-Resolution Relaxometry	Ulric Le Paige	France	11. Solution NMR - Methodology	Tuesday
PO328	Probing the coupled dynamics between lipids and membrane proteins by high-pressure NMR spectroscopy	Ewen Lescop	France	11. Solution NMR - Methodology	Monday
PO329	Symmetry Theory of Long-Lived States	Malcolm Levitt	United Kingdom	11. Solution NMR - Methodology	Tuesday
PO330	Relaxational signal attenuation during selective refocusing pulses	Runchao Li	United Kingdom	11. Solution NMR - Methodology	Monday
PO332	Reaction monitoring with fast and flow-compatible diffusion NMR	Achille Marchand	France	11. Solution NMR - Methodology	Monday
PO333	Describing transfer RNA dynamics using NMR relaxation	Emeline Mestdach	France	11. Solution NMR - Methodology	Tuesday
PO334	Observing the permeation of different drugs through an artificial membrane inside an NMR tube.	Malte Mildner	Germany	11. Solution NMR - Methodology	Monday

PO335	Can the temperature coefficients support spectral assignment?	Ewa Nawrocka	Poland	11. Solution NMR - Methodology	Tuesday
PO336	Exchange NMR Spectroscopic Studies on 8-amino-BODIPY Dyes	Dimitrios Piperoudis	The Netherlands	11. Solution NMR - Methodology	Monday
PO337	HCP transfers for relaxation dispersion measurements: considerations and improvements for measuring RNA dynamics	Magdalena Riad	Sweden	11. Solution NMR - Methodology	Tuesday
PO338	Structure determination of high-energy states in a dynamic protein ensemble	Pascal Rieder	Switzerland	11. Solution NMR - Methodology	Monday
PO339	Building bridges between Lindblad and Redfield master equations	Bogdan Rodin	France	11. Solution NMR - Methodology	Tuesday
PO340	Methodological Advances for the Characterisation of Human GPCRs by NMR Spectroscopy	Philip Rößler	Switzerland	11. Solution NMR - Methodology	Monday
PO341	Symmetry-based Singlet-Triplet Conversion in Solution Nuclear Magnetic Resonance	Mohamed Sabba	United Kingdom	11. Solution NMR - Methodology	Tuesday
PO342	A general method for fully homodecoupled $^1\text{H}$ - $^{13}\text{C}$ HSQC spectra	Davy Sinnaeve	France	11. Solution NMR - Methodology	Monday
PO343	Studies of chiral polar molecules in a strong electric field	Mateusz Słowiński	Poland	11. Solution NMR - Methodology	Tuesday
PO344	SCALPEL NMR: performing surgery on spectra of complex mixtures	Marshall Smith	United Kingdom	11. Solution NMR - Methodology	Monday
PO345	Long-lived states of magnetically inequivalent protons in aliphatic chains of nonchiral molecules	Anna Sonnefeld	France	11. Solution NMR - Methodology	Tuesday
PO346	Selective excitation and detection of long-lived states using only low-amplitude pulses	Florin Teleanu	Romania	11. Solution NMR - Methodology	Monday
PO348	ULTRAFast TRANSVERSE RELAXATION EXCHANGE NMR SPECTROSCOPY	Sharif Ullah	Finland	11. Solution NMR - Methodology	Monday
PO349	Synergy of Time-Resolved NUS and DOSY for the monitoring of photopolymerization of anthracene derivatives	Mateusz Urbańczyk	Poland	11. Solution NMR - Methodology	Tuesday
PO350	Improved frequency-swept pulse sequences	Jean-Baptiste Verstraete	United Kingdom	11. Solution NMR - Methodology	Monday
PO351	New insights into the structure – magnetism relationship of lanthanoid complexes	Raphael Vogel	Switzerland	11. Solution NMR - Methodology	Tuesday
PO352	Nuclear/electron magnetic resonance detection of coupled intra- and interdomain protein motion	Beat Vögeli	United States	11. Solution NMR - Methodology	Monday
PO353	Single-experiment pKa measurements and ion-binding analysis using $^1\text{H}$ chemical shift imaging techniques	Matthew Wallace	United Kingdom	11. Solution NMR - Methodology	Tuesday



PO354	GENESIS: Automated Pulse Programme Construction for NMR Supersequences	Jonathan Yong	United Kingdom	11. Solution NMR - Methodology	Monday
PO355	Proton relaxation NMR evidence for pervasive sidechain dynamics in proteins.	Erik Zuiderweg	The Netherlands	11. Solution NMR - Methodology	Tuesday
PO357	Benchtop NMR relaxometry for the follow-up of Cr(III) and Mn(II) removal by ion exchange resin.	Marie Bernardi	Belgium	12. Benchtop / Low field	Tuesday
PO358	High resolution spectroscopy at ultra-low magnetic field	Sven Bodenstedt	Spain	12. Benchtop / Low field	Monday
PO360	Approaching Immobilized Polymer Fraction Determination by Low Field NMR Relaxometry	Carlos Fernández de Alba	France	12. Benchtop / Low field	Monday
PO361	Towards ultra long-lived singlet states in 103Rh complexes	Harry Harbor-collins	United Kingdom	12. Benchtop / Low field	Tuesday
PO362	HYPERPOLARIZED ULTRAFAST DIFFUSION EXCHANGE SPECTROSCOPY BY A SINGLE SIDED NMR INSTRUMENT	Yashu Attendee	Finland	12. Benchtop / Low field	Monday
PO363	Solid-state NMR signals in zero-field	George Kurian K K	India	12. Benchtop / Low field	Tuesday
PO364	Two-dimensional NMR study of cement materials during sorption cycles	Anastasiia Nagmutdinova	Italy	12. Benchtop / Low field	Monday
PO365	Decoupling of spin decoherence paths near zero magnetic field	Michael Tayler	Spain	12. Benchtop / Low field	Tuesday
PO366	Band-pass pulses for low-, ultralow- and zero-field magnetic resonance	Michael Tayler	Spain	12. Benchtop / Low field	Monday
PO367	Polarization Transfer from Optically Pumped Ensembles of N-V Centers to Multinuclear Spin Baths	Roberto Rizzato	Germany	13. Single molecule detection/ NV centers	Tuesday
PO368	Magnetic resonance gradient imaging using a "current-focusing device" in a nitrogen-vacancy sensor	Leora Schein-Lubomirsky	Israel	13. Single molecule detection/ NV centers	Monday
PO369	Demonstration of NV-detected NMR at 8.3 Tesla	Susumu Takahashi	United States	13. Single molecule detection/ NV centers	Tuesday
PO370	Assessing the quantification of acetylation in konjac glucomannan via ATR-FTIR and solid-state NMR spectroscopy	Marianne Gaborieau	France	06. Materials	Monday

