

20th edition of the Young Belgian Magnetic Resonance Scientists symposium - YBMRS 2024

Monday, 25 November 2024

Oral contributions: session 1 – Chair: Samara Medina Rivero (14:00 - 15:00)

time	[id] title	presenter
14:00	[15] Multinuclear Solid-State NMR and Spectroscopic Analysis of Fe-Bearing Alkali-Activated Slags: Insights into Iron Oxidation State and Polymerization	YU, Ziyou
14:20	[25] Exploring the Radiosensitizing Potential of Iron Oxide Nanoparticles.	TERNAD, Indiana
14:40	[12] Fast access to protein dynamics using ultra-selective ¹⁵ N- ¹ H spectroscopy	ADAMSKI, Wiktor

Oral contributions: session 2 – Chair: Rodrigo de Oliveira Silva (17:20 - 18:40)

time	[id] title	presenter
17:20	[8] Structural and Dynamic Insights into the Loss of Activity of Tolaasin I	Mr PRASAD, Durga
17:40	[11] Noninvasive discrimination between mitochondrial ROS and cytosolic ROS in solid tumors using in vivo EPR spectroscopy	MATHIEU, Barbara
18:00	[20] Improving medical material imaging with 3D-printed MRI passive shims	Mrs VANDUFFEL, An
18:20	[13] Beware of the structure: Insights into the Phosphorus Dynamics of post-synthetically modified NU1000 in the presence of water	THEISSEN, Jennifer

Tuesday, 26 November 2024

Oral contributions: session 3 – Chair: Elien Dervaux (09:50 - 10:30)

time	[id] title	presenter
09:50	[3] Electrical detection of magnetic resonance on a Chip (EDMRoC): A low-cost and sensitive characterization tool for defects in SiC MOSFETs	VANDEVENNE, Ilias
10:10	[29] Characterization and incorporation of heme proteins in mesoporous titania materials for biosensing applications	CLEIRBAUT, Robine

Oral contributions: session 3 continued (11:40 - 12:20)

time	[id] title	presenter
11:40	[6] Detection of triplet excitons on open-shell (6,5)-SWCNTs-PTM• using Optically-Detected Magnetic Resonance	Dr DE SOUSA RODRIGUEZ, Jesus Alejandro
12:00	[27] Characterizing the Acidity of Silica-Based Materials through ³¹ P ssNMR: TMP as a Probe for Lewis and Brønsted Acid Sites.	MORENA, Anthony

Oral contributions: session 4 – Chair: Anthony Morena (14:40 - 15:20)

time	[id] title	presenter
14:40	[14] Structural Basis of Testosterone Recognition by a DNA Aptamer	Dr VIANNEY, Yoanes Maria
15:00	[22] Boosting ¹ H and ¹³ C NMR signals by orders of magnitude using benchtop DNP	VANEECKHAUTE, Ewoud