

Session Program

6-7 Nov 2025



21st edition of the Young Belgian Magnetic Resonance Scientists symposium - YBMRS 2025

Oral contributions

Floreal Blankenberge
Koning Albert-I-laan 59 8370 Blankenberge

Thursday 6 November

13:50

Oral contributions: Plenary Session 1 - Chair: Roy Lavendomme

Session | **Location:** Floreal Blankenberge, Koning Albert-I-laan 59 8370 Blankenberge

13:50-14:10

3D printing of subject-specific passive shims to improve in vivo MRI

Speaker

An Vanduffel

14:10-14:30

Synthesis and Optimisation of Gallium Doped Dendritic Silica Materials for CO₂ Conversion: a Structure - Activity Correlation via ssNMR

Speaker

Nicolas Pierard

14:30

17:10

Oral contributions: Plenary Session 2 - Chair: Ewoud Vaneckhaute

Session | **Location:** Floreal Blankenberge, Koning Albert-I-laan 59 8370 Blankenberge

17:10-17:30

¹H-NMR metabolomics of cocoa beans and derived cocoa liquors and chocolates after spontaneous or starter culture-initiated cocoa fermentation

Speaker

Emmy Tuenten

17:30-17:50

Integrating NMR and dielectric spectroscopy in a single multi-diagnostic probe-head for the investigation of nanoconfined water

Speaker

Alysson F. Morais

17:50-18:10

Monte Carlo study of high-field transverse relaxation induced by iron oxide nanoparticles coated by a slow water diffusion layer

Speaker

Éléonore Martin

18:10

Friday 7 November

09:55

Oral contributions: Chair: Anthony Morena

Session | **Location:** Floreal Blankenberge, Koning Albert-I-laan 59 8370 Blankenberge

09:55–10:15

Cracking MOF secrets with NMR crystallography: Isoreticular Expansion in Porous Al(III) and Ga(III) Phosphonates: Synthesis, Structure, and Properties

Speaker

Jennifer Theissen

10:15

11:45

Oral contributions: Plenary Session 3 - Chair: Yoanes Maria Vianney

Session | **Location:** Floreal Blankenberge, Koning Albert-I-laan 59 8370 Blankenberge

11:45–12:05

Hyperpolarized Protic Solvents as General Resource for Polarization Transfer

Speaker

Ewoud Vaneeckhaute

12:05–12:25

Silica-Based Nanotubes and Nanospheres: Versatile Materials from Micellization Studies to Greener Pathways

Speaker

Vittorio Marsala

12:25–12:45

Unlocking homonuclear geminal couplings for conformational analysis of flexible molecules

Speaker

Elisa Norzagaray

12:45–13:05

Multi-harmonic EPR detection of melanin in skin melanomas: from mice to men

Speaker

Mohammad Wehbi

13:05

15:20

Oral contributions: Plenary Session 4 - Chair: Peter Adriaensens

Session | **Location:** Floreal Blankenberge, Koning Albert-I-laan 59 8370 Blankenberge

15:20–15:40

Unravelling competitive adsorption in zeolites with solid-state NMR

Speaker

Sambhu Radhakrishnan

15:40–16:00

Mapping Cancer's Metabolic Footprint: Plasma NMR for Early NSCLC Diagnosis

Speaker

Jill Meynen

16:00-16:20

Solution-state NMR spectroscopic characterization of metal-organic assemblies

Speaker

Roy Lavendomme

16:20