Program

Monday 30

17:30 - Introduction (Boris Le Guennic)

17:40 – Ria Broer

18:00 - Frank Neese

Tuesday 31 | Morning #1 | 09:00 - 10:20

09:00 - Eric Collet

10:00 – Léo La Droitte

Coffee break | 10:20 - 10:50

Tuesday 31 | Morning #2 | 10:50 - 12:10

10:50 - Hélène Bolvin

11:30 - Grégoire David

Lunch break | 12:10 - 14:20

Tuesday 31 | Afternoon #1 | 14:20 - 16:00

14:20 - Nathalie Guihéry

15:00 – Barthélémy Pradines

15:20 - Nicolas Montenegro

15:40 – Aitor Sanchez

Coffee break | 16:00 – 16:30

Tuesday 31 | Afternoon #2 | 16:30 – 18:10

16:30 - Olivier Cador

17:30 - Nicolas Foglia

17:50 - Shashank Rao

Wednesday 1 | Morning #1 | 09:00 - 10:20

09:00 - Xavier Rocquefelte

10:00 - Jordi Ribas

Coffee break | 10:20 - 10:50

Wednesday 1 | Morning #2 | 10:50 - 12:10

10:50 - Mihail Atanasov

11:30 - Jean-Paul Malrieu I

Lunch break | 12:00 - 14:30

Excursion

Colour code | 60-minute talk 40-minute talk 20-minute talk Jujols X Events

Thursday 2 | Morning #1 | 09:00 - 10:20

09:00 - Celestino Angeli

10:00 - Jean-Paul Malrieu II

Coffee break | 10:20 - 10:50

Thursday 2 | Morning #2 | 10:50 - 12:10

10:50 – Ibério de P. R. Moreira

11:30 - Daniel Santa Lucia

Lunch break | 12:10 - 14:20

Thursday 2 | Afternoon #1 | 14:20 - 16:00

14:20 - Maxime Grasser

15:00 - Nelson David Arias Olivares

15:20 - Raul Santiago

15:40 – Jordi Cirera

Coffee break | 16:00 - 16:30

Thursday 2 | Afternoon #2 | 16:30 - 17:50

16:30 - Coen de Graaf

17:10 - Roundtable

Friday 3 | Morning #1 | 09:00 - 11:10

09:00 - Jean-Paul Malrieu III

09:20 - Vijay Gopal

10:00 – Léo Gaspard

10:20 - Rémi Maurice

11:00 – Concluding remarks

Lunch box

Monday 30

- 17:30 Introduction
- 17:40 Ria Broer | On the development of computational chemistry
- **18:00** Frank Neese | Some thoughts on the future of quantum chemical software development and recent progress in multi-reference methods

Tuesday 31

- 09:00 Eric Collet | Disentangling ultrafast electronic and structural dynamics in photomagnetic materials
- **10:00** Léo La Droitte | *Organolanthanide complexes: ab initio electronic structure investigation and magnetic properties rationalization*Coffee break | 10:20 10:50
- 10:50 Hélène Bolvin | Magnetic properties of actinide complexes
- 11:30 Grégoire David | Towards a general and consistent evaluation of magnetic exchange couplings in KS-DFT Lunch break | 12:10-14:20
- 14:20 Nathalie Guihéry | Physics of the Dzyaloshinskii-Moriya interaction
- 15:00 Barthélémy Pradines | Impact of the electric field on magnetic parameters: disruptive Dzyaloshinskii-Moriya interaction
- 15:20 Nicolas Montenegro | A photo-induced spin crossover based molecular switch and spin filter operating at room temperature
- 15:40 Aitor Sanchez | Many-Electron Tight Binding model applied to singlet fission
 - Coffee break | 16:00 16:30
- 16:30 Olivier Cador | An experimental approach of the relaxation of the magnetic moments in lanthanide-based single-molecule magnets
- **17:30** Nicolas Foglia | *Including vibrational effects in MCD calculations*
- **17:50** Shashank Rao | *Ab-Initio* and ligand field analysis of structural variations of an air-stable single-ion magnet displaying magnetic blocking up to 4.0 K

Wednesday 1

- 09:00 Xavier Rocquefelte | High-Pressure tuning of magnetism and ferroelectricity in multiferroic mixed-anion cuprates
- 10:00 Jordi Ribas | Solid-state effects on the singlet-triplet energy gaps of switchable biradicals

Coffee break | 10:20 – 10:50

- **10:50** Mihail Atanasov | Magnetic Exchange and Valence Delocalization in a Mixed Valence $[Fe^{\parallel}Fe^{\parallel}]^+$ Complex: Insights From Theory and Interpretations of Magnetic and Spectroscopic Data
- 11:30 Jean-Paul Malrieu I | The difficult exploration of a chemical utopia

Thursday 2

- 09:00 Celestino Angeli | Multireference Perturbation Theory: the n-electron valence state approach
- **10:00 –** Jean-Paul Malrieu II | Can one learn something from a Fully Contracted approach?

Coffee break | 10:20 – 10:50

- 10:50 Ibério de P. R. Moreira | Evidence for low-lying correlated gapped states in strained graphene and graphenic 2D-COFs
- 11:30 Daniel Santa Lucia | Antiferromagnetic Exchange and Metal–Metal Bonding in Roussin's Black Sulfur and Selenium Salts
 Lunch break | 12:10 14:20
- 14:20 Maxime Grasser | In silico chiroptical properties of organo-lanthanide complexes
- 15:00 Nelson David Arias Olivares | Magnetic behavior of encapsulated Single Molecules Magnets
- **15:20** Raul Santiago | *Molecular Orbital Descriptor Approach (MODA): A Machine Learning descriptor based on first principles to predict magnetic couplings in organic magnets*
- **15:40** Jordi Cirera | *Using electronic structure methods to model Spin-Crossover processes in Inorganic Systems: From molecules to crystals*Coffee break | 16:00 16:30
- 16:30 Coen de Graaf | Magnetic interactions with non-orthogonal configuration interaction
- 17:10 Roundtable

Friday 3

- **09:00** Jean-Paul Malrieu | Are the formal requirements of the many-body problem made obsolete by the fantastic progresses of our computational resources?
- 09:20 Vijay Gopal | A pedagogical discussion of the size-consistency issue for selected configuration interaction methods
- 10:00 Léo Gaspard | Building model Hamiltonians for solids
- 10:20 Rémi Maurice | On the CAS explosion in polynuclear transition metal complexes
- 11:00 Concluding remarks