

Tuesday 2nd June

- 19:00 Welcome
- 19:05 – 19:35 Presentation of COMANA
- 20:00 **Dinner**

Wednesday 3rd June

Isolated core-shell nanoparticles (1)

- 09:00 – 09:40 *Atomic Structure in Magnetic Core-Shell Nanoparticles*
S. Baker
- 09:40 – 10:20 *Exchange Bias in Fe@Cr Core-Shell Nanoparticles*
C. Binns
- 10:20 – 11:00 *Magnetism at Co/CoO interface*
J. Blackman
- 11:00 – 11:30 **Coffee**

Isolated core-shell Nanoparticles (2)

- 11:30 – 12:10 *Size Dependent Magnetism in FeO/Fe₃O₄ Core/Shell Nanoparticles and its Possible Biomedical Applications*
J. Nogués
- 12:10 – 12:50 *Re-entrant antiferromagnetism in exchange biased systems*
L. Del Bianco
- 12:50 – 13:30 *Design of magnetic nano-architecture*
D. Peddis
- 13:30 – 15:30 **Lunch**

Interacting Nanoparticle Systems (1)

- 15:30 – 16:10 *Intrinsic and collective properties of magnetic nanoparticles: new applications and new fundamental issues*
H. Kachkachi
- 16:10 – 16:30 *Exchange bias effects in arrays of Co/CoO nanoparticles*
G. Margaris
- 16:30 – 17:00 **Coffee**

Interacting Nanoparticle Systems (2)

- 17:00 – 17:40 *Magnetic properties of Co and Fe nanoparticles embedded in antiferromagnetic Mn and Cr matrices*
D. Fiorani
- 17:40 – 18:20 *Novel Magnetic, Vibration and Chemical Properties in Supracrystals of 7 nm-Co Nanoparticles with Controlled Morphologies*
I. Lisiecki
- 18:20 – 19:00 *Inter- and intra-particle interactions in maghemite nanoparticle ensembles*
J. A. De Toro
- 20:00 **Dinner**

Thursday 4th June

Interacting Nanoparticle Systems (3)

- 09:00 – 09:40 *Design of Magnetic Nanoparticles and Their Self-assembly into Exotic Superstructures*
G. Singh
- 09:40 – 10:20 *Hierarchical Length-scale Interactions in Colloidal Maghemite Nanocrystal Clusters*
A. Lappas
- 10:20 – 11:00 *Interacting superparamagnetism and giant paramagnetism of Fe⁺²/Fe⁺³-doped hydroxyapatite nanoparticles*
V. Iannotti
- 11:00 – 11:30 **Coffee**

Novel Nanostructures (1)

- 11:30 – 12:10 *Surface and interface magnetism in hollow, core shell and hybrid nanostructures*
H. Srikanth
- 12:10 – 12:50 *Spin dynamics in magnetic nanostructures: quantum vs. semiclassical approach*
T. Dietl
- 12:50 – 13:30 *Nitride-based self-assembled magnetic nanocrystals and complexes*
A. Bonanni
- 13:30 – 15:30 **Lunch**

Novel nanostructures

- 15:30 – 16:10 *Multiscale modelling of hard magnetic nanostructures*
J. Fidler
- 16:10 – 16:20 *Finite Element Micromagnetic Simulation of nanoparticles*
N. Ntallis
- 16:50 – 17:10 **Coffee**

Novel Nanoarchitectures

- 17:10 – 17:50 *Pressure effect on ferromagnetism and exchange bias in Ru-doped manganites and $La_{0.9}Ba_{0.1}CoO_3$ cobaltites*
A. Wisniewski
- 17:50 – 18:30 *Particle Size Effect on Charge Ordering and Exchange Bias in $(Sm,Ca,Sr)MnO_3$ Manganites*
R. Puzniak
- 18:30 – 19:10 *Novel Magnetic Nanoparticles and Nanowires in Superfluid Helium Droplets*
S. Yang
- 20:00 **Dinner**

Friday 5th June

Nanoparticles and Applications

- 09:00 – 09:40 *Design and optimizing heating capacity of multifunctional magnetic nano-objects: application to nanomedicine and catalysis*
M. Respaud
- 09:40 – 10:20 *Magnetic core/shell nanoparticles for biomedical applications: A new theoretical approach and Monte Carlo simulations*
M. Vasilakaki
- 10:20 – 11:00 *Gas-Phase preparation of high performance magnetic Nanoparticles for Hyperthermia*
K. Dexter
- 11:00 – 11:20 **Coffee**

Nanoparticles and Applications

- 11:20 -12:00 *Iron based nanoparticles for biomedical applications - the impact of nano-strain on reactivity*
R. Kroger

12:00 -12:40	<i>Magnetic recording media beyond 1 Tbit/in</i> D. Niarchos
12:40 – 13:30	Concluding remarks and discussion
13:30	Lunch

** **Posters** will be displayed in the conference room during the Workshop.

The posters session will take place during the morning coffee breaks on Wednesday the 3rd and on Thursday the 4th of June.