

NEW SPIN 3

MATERIALS
IN
MAINZ SCIENCE



SPIN PHENOMENA - FROM MODEL SYSTEMS TO COMPLEX MATTER

CONFERENCE
APRIL 2–5, 2013

SUMMER SCHOOL
APRIL 5–9, 2013
IN MAINZ (GERMANY)

CONFERENCE SPEAKERS:

G. Bauer
J. Checkelsky
L. Cheuk
E. Demler
S. Demokritov
H. Dürr
T. Enns
T. Giamarchi
M. Greiner
S.-K. Kim
M. Köhl
T. Lompe
B. Laburthe Tolra
K.-J. Lee
S. Maekawa
A. Manchon
L. Molenkamp
M. Mostovoy

S. Murakami
U. Nowak
T. Ono
C. Pfleiderer
L. Redzihovsky
D. Ravelosona
A. Rosch
C. Sa de Melo
E. Saitoh
F. Schreck
K. Sengstock
I. Spielman
P. van der Straten
B. van Wees
W. Wernsdorfer
A. Widera
H. Zhai
S. Zhang

SUMMER SCHOOL TOPICS:

SPIN PHENOMENA IN COMPLEX MATTER

Spintronics - Charge and Spin Transport
Nanomagnetism and Micromagnetic Theory
Spin Transfer Torque
Spin Orbit Effects
Spin Dynamics and Magnonics
Molecular Magnets and Molecular Spintronics

SPIN PHENOMENA IN COLD ATOM MODEL SYSTEMS

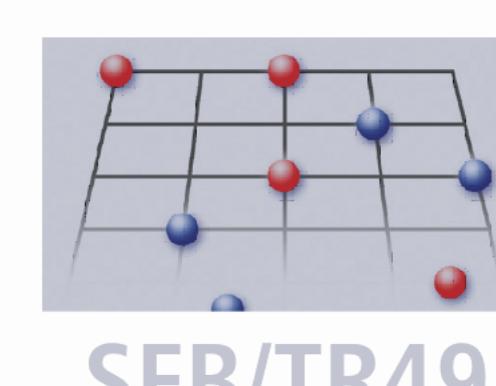
Bose-Einstein Condensation and Degenerate Quantum Gases
Optical Lattices and Strong Correlations
Magnetism and Frustration in Optical Lattices
Artificial Gauge Fields and Topological Phases
Long-Range Interactions: Polar Molecules and Rydberg Gases
Quantum Gas Microscopy

Organizing Committee:

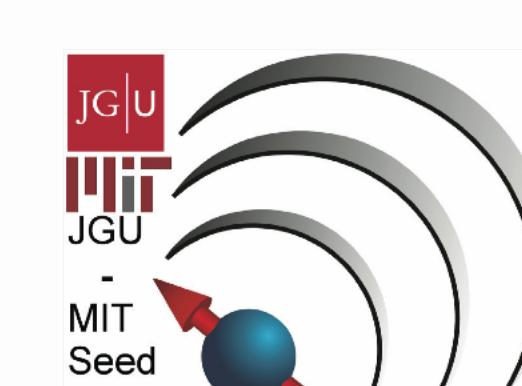
Materials Science in Mainz, M. Kläui & H. Ott (Local Organizers)
R. Duine, W. Hofstetter, H. Stoof, J. Sinova and M. Zwierlein

Registration deadline: February 28, 2013

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SFB/TR49



Bundesministerium
für Bildung
und Forschung