The Abdus Salam
International Centre for Theoretical Physics

FIFTH STIG LUNDQVIST CONFERENCE ON THE ADVANCING FRONTIERS OF CONDENSED MATTER PHYSICS

ICTP, Trieste, 11 to 15 July 2011

co-sponsored by:
ICAM-12CAM Institute for Complex Adaptive Matter, Davis, CA, U.S.A.

TITLES OF POSTER PRESENTATIONS

Venue: Kastler Lecture Hall, Adriatico Guest House, Lower Level 1

ABDEL-KHALEK, Mohamed El Sayed
DYNAMICS OF VON NEUMANN ENTROPY FOR MOVING THREE-LEVEL ATOM IN THE PRESENCE OF DECOHERENCE TERMS

ADINEHVAND, Fateme
SPIN POLARIZATION AND MAGNETORESISTANCE THROUGH A FERROMAGNETIC BARRIER IN GRAPHENE BILAYER

BERRADA, Kamal
QUANTUM ENTANGLEMENT

CHESCA, Boris
TUNNELLING IN JUNCTIONS INVOLVING d-WAVE UNCONVENTIONAL SUPERCONDUCTORS: NEW PHENOMENA

DEO, Nivedita
CORRELATION FUNCTIONS AND NONEQUILIBRIUM ELECTRONIC TRANSPORT FOR GAS FLOW OVER A DNA FUNCTIONALIZED CARBON NANOTUBE

FRANCO PENALOZA, Roberto
THERMOELECTRIC EFFECTS IN A SINGLE-WALL ZIG-ZAG CARBON NANOTUBE WITH A SIDE COUPLED CORRELATED QUANTUM DOT

FULGA, I.C.
SCATTERING MATRIX APPROACH TO THE TOPOLOGICAL CHARGE

GALDA, Alexey
IMPURITY SCATTERING IN LÜTTINGER LIQUID WITH ELECTRON-PHONON COUPLING

JAFARI, Seyed Akbar
SPIN EXCITATIONS IN GRAPHENE

KHARITONOV, Maxim
PHASE DIAGRAM FOR THE $\nu = 0$ QUANTUM HALL STATE IN MONOLAYER GRAPHENE

KRAVCHENKO, Liudmyla
A TWO-LAYER GRAPHENE SYSTEM WITH SUPERCONDUCTIVE ELECTRON-HOLE PAIRS IN A QUANTIZING MAGNETIC FIELD

LEVKIVSKYI, Ivan
NOISE-INDUCED PHASE TRANSITION IN THE ELECTRONIC MACH-ZEHNDER INTERFEROMETER

QU, Fanyao
ENGINEERING THE *sp-d* EXCHANGE INTERACTION IN SINGLE *Mn* DOPING VERTICAL QUANTUM DOT MOLECULES

RAMIREZ GOMEZ, Hanz Yecid
CONTROL OF FINE STRUCTURE SPLITTING IN DOUBLE QUANTUM DOTS FOR SOLID STATE-BASED ENTANGLEMENT SOURCES

VAN DEN BERG, Tineke L.
DYNAMICAL SPIN HALL CONDUCTIVITY IN A MAGNETIC DISORDERED SYSTEM

VIRTANEN, Pauli
DEPHASING OF SPIN AND CHARGE INTERFERENCE IN HELICAL LÜTTINGER LIQUIDS

WANG, Dali
1) LANDAU LEVEL COLLAPSE IN BIASED BILAYER GRAPHENE
2) NOVEL ELECTRIC FIELD EFFECTS ON LANDAU LEVELS AND HALL CONDUCTIVITY IN AA-STACKED BILAYER GRAPHENE