

APS-CA-NV 2009 Meeting program:

Friday, Nov. 13, 2009

8:00-10:00 Registration

10:00-11:30 Welcome and Plenary I

11:30-13:00 Lunch

13:00-16:00 Parallel F1,F2,F3,F4

18:00 Banquet

Saturday, Nov. 14, 2009

9:00-11:00 Panel Discussion

11:00-11:30 Business Meeting

11:30-13:00 Lunch

13:00-14:00 Plenary II

14:00-16:00 Parallel S1,S2,S3,S4

APS-CA-NV 2009 Meeting: Contributed talks:

Session F1, Astrophysics, 13:00-16:00, Friday, Nov. 13

Room : Spanagel 117

Session Chair : Thomas Gredig, California State University Long Beach, tgredig@csulb.edu

13:00	An Alternative Explanation to CMBR based on Curvature	Richard Kriske
13:12	Fermi-LAT Sensitivity to Dark Matter Annihilation in Via Lactea II Substructure	Brandon Anderson
13:24	The Search for Ultra High-Energy Neutrinos With The ANITA Experiment	Abigail Vieregg
13:36	Observation of UHE Cosmic Rays from a Balloon-borne Neutrino Telescope	Stephen Hoover
13:48	Can Dark Matter explain the WMAP Haze?	Tim Linden
14:00	Waves in an accretion disk: nodal superhumps versus permanent superhumps in V378 Pegasi	Kenia Velasco
14:12	Quantum Universe Theory	Bruce Cunningham
14:24	Video Crosstalk in Kepler CCDs	Jason von Wilpert
14:36	An Overview of Hubble's Newest Addition: WFC3	Lucy McLaurin
14:48	Theoretical Derivation of Equations Governing the Coupled Distributions of Dark and Baryonic Matters	Jacques Leibovitz
15:00	A Different Reason Why Black Holes are Black	Noha S. Farghal
15:12	Quantum trajectories for entanglement phenomena	Edward Floyd
15:24	Tutorial Device Illustrating A Spin One-Half Object	Vladislav Bevc
15:36	A Mechanical Model of Fermions	Robert Close
15:48	Acoustic Attraction	Eric Oviatt

**Session F2, High Energy/Nuclear Accelerators and Plasma Physics,
13:00-16:00, Friday, Nov. 13**

Room : Spanagel 231

**Session Chair : Jennifer Klay, Cal Poly San Luis Obispo, jk-
lay@calpoly.edu**

13:00	Development of Mirrors for the CLAS12 High Threshold Cerenkov Counter	Emmanuel Angulo
13:12	LHC Status and Upgrade Challenges	Jeffrey Smith
13:24	Identifying non-photon electrons in Pb+Pb collisions with ALICE at the LHC	Christopher Brown
13:36	Identification of bottom quark jets in Pb+Pb collisions in ALICE at the LHC	Brandon Boswell
13:48	Charged hadron spectra for Cu+Cu collisions at $\sqrt{S} = 22.4 GeV$ with the STAR detector at RHIC	Orpheus Mall
14:00	STAR as a fixed target experiment?	Brooke Haag
14:12	Exact treatment of confinement in the semirelativistic Faddeev approach to three-quark problems	Joseph Day
14:24	Semi-Analytical Approach to the Gravitational Wave Signal From the Electroweak Phase Transition in General Standard Model-like Effective Potentials	John Kehayias
14:36	The Search for Neutron Oscillations at Super-Kamiokande	Mark Gregg
14:48	New results from ADMX - an ultra sensitive axion detection experiment	Steven Asztalos
15:00	Development of a Compact Neutron Generator to be Used For Associated Particle Imaging Utilizing a RF-Driven Ion Source	Ying Wu
15:12	Bound-Compton profiles for inelastic x-ray scattering in warm dense matter	Paul Davis
15:24	Spectrally Resolved X-ray Scattering from Implosion Targets	Andrea Kritcher
15:36	Evolution of Elastic X-ray Scattering in Laser-Shocked Warm Dense Li	Nathan Kugland

**Session F3, Materials/Nanomaterials Science, 13:00-16:00, Friday,
Nov. 13**

Room : Spanagel 321

Session Chair : Michelle Poliskie, Solyndra, gpoliskie@yahoo.com

13:00	Atomic and electronic structures of GaN:ZnO Alloys	Shuzhi Wang
13:12	GW study of the half metallic band gap of zinc blende CrAs	Liam Damewood
13:24	Creating wide-band negative-index-of-refraction metamaterials with fractal-based geometry	Keith Penney
13:36	Influence of Nanostructuring and Heterogeneous Nucleation on the Thermoelectric Figure of Merit in AgSbTe ₂	Peter Sharma
13:48	Electro-optical properties of quantum dots dispersed in chiral nematic liquid crystal	J. Kirchhoff
14:00	Comparative analysis of the hydrogen-vacancy interaction in Mg and Al based on density functional theory	Lars Ismer
14:12	Strain-induced isosymmetric phase transition in multiferroic BiFeO ₃	Alison Hatt
14:24	Superparamagnetic Magnetite Nanoparticles for Optical Modulation/Chopping	Serkan Zorba
14:36	Phonon Transport in Graphene: Umklapp Quenches and Heat Conduction	Alexander Balandin
14:48	Computational Approach for Quantifying Structural Disorder in Biomolecular Lattices	Clayton Bratton
15:00	Studies of singly doping of Me and Fe in Si to deduce simple guidelines in selecting transition metal elements for Si-based spintronic materials	Michael Shaughnessy
15:12	Oscillation of the critical temperature in Proximity Systems involving Graphene Multilayers	Julius DeRojas
15:24	Faraday Effect in Magnetic and Non-Magnetic Colloidal Nanoparticles in Water	Constantine Farah
15:36	Computational study of the adsorption of methanol formic acid and formaldehyde on the β -SiC(100)-3x2 surface	Lekh Adhikari
15:48	Band-gap bowing band offsets and electron affinities for AlN GaN InN and InGaN: A DFT study	Poul Georg Moses
16:00	Strain effect in group-III nitride semiconductors and their alloys	Qimin Yan

Session F4, Condensed Matter I, 13:00-16:00, Friday, Nov. 13

Room : Spanagel 421

Session Chair : Andreas Bill, California State University Long Beach, abill@csulb.edu

13:00	Imaging Transport in Nanowires with NSOM	Lee Baird
13:12	Environment-invariant measure of distance between evolutions of an open quantum system	Matthew Grace
13:24	Search for anomalous spin-mass couplin with a rubidium magnetometer	Ian Lacey
13:36	Light Propagation in Liquid Crystals with a Chiral Dopant	Justin Lawson
13:48	Towards microwave modulation in a wavelength-tuned magneto-optical trap	Aaron Allen
14:00	La-139 NMR in $\text{La}_4\text{Ni}_3\text{O}_8$: a possible analog to the cuprate high temperature superconductors	Nicholas apRoberts-Warren
14:12	Quantum Phases of Atom-Molecule Mixtures of Fermionic Atoms	Nicolas Lopez
14:24	Knight Shift Probe of Onset of Coherence in Heavy Electron Superconductor CeIrIn_5	Abigail Shockley
14:36	Cyclotron Resonance Vanishing effect in Correlated 2D Electron Systems	Andre Chebotarev
14:48	Steady-State, and Transient Photoconductivity in the Poly(2,7-Carbazole) Copolymer PCDTBT, and in Bulk Heterojunction Composites with PC_{70}BM	Nelson Coates
15:00	Superconducting Transition Temperature Dependence on c-axis Pressure in Single Crystal CeCoIn_5	Scooter Johnson
15:12	Local density of states and scanning tunneling currents in graphene	Ling Yang
15:24	Arsenic nuclear magnetic resonance in CaFe_2As_2	Adam Dioguardi
15:36	Growth of Iridium on Ge(111) Studied by STM and LEEM	Cory Mullet
15:48	A model of electron spin relaxation momentum time in GaAs cylindrical quantum dots: including the Dresshaus effect	Yung-sheng Huang
16:00	Scanning Conductive Force Microscopy for Characterization of Model Molecular Devices	Marshall van Zijll

Session S1, Applied Physics, 14:00-16:00, Saturday, Nov. 14

Room : Spanagel 117

Session Chair : Lin Yang, Lawrence Livermore National Laboratory, lyang@llnl.gov

14:00	Development of a Laminar Flame Test Facility for Bio-Diesel Characterization	Giam Tan
14:12	Low Temperature Transient Performance of Polymer Organic Light-Emitting Diodes	Karl Burnett
14:24	Trap States in Organic Semiconductor Thin Films using Photogenerated Currents	Jorge Guerra
14:36	Investigation on Novel Methods to Increase Specific Thrust in Pulse Detonation Engines via Imploding Detonations	Ivan Ho
14:48	Simulation Construction and Experimental Evaluation of a Twice-Augmented Railgun	Justin Salvia
15:00	NPS Gas Gun for Planar Impact Studies	Chien Cheong Ho
15:12	Development of a Laboratory Scale Test Facility (LSTF) to investigate Armor solutions against buried explosive threats	Felipe Garcia
15:24	Numerical Calculation of Anelastic Seismic Pulse Propagation in a Hysteretic Elastic Material Along a Horizontal Surface Boundary of the Earth	Dan Kosik
15:36	Optimal Control of Shock Tube Flow via Water Addition with Application to Ignition Overpressure Mitigation in Launch Vehicles	Nathan Moshman
15:48	Anomalous Velocity Dependence of the Friction Coefficient of an Air Supported Pulley	Matteo Crismani

Session S2, Nuclear/Atomic/Molecular Physics, 14:00-16:00, Saturday, Nov. 14

Room : Spanagel 231

Session Chair : Howard Matis, Lawrence Berkeley National Laboratory, Hsmatis@lbl.gov

14:00	The Neutron Induced Fission Fragment Tracking Experiment	Jennifer Klay
14:12	NIFFTE Software and Computin: Results from the first mock data challenge	Ryuhō Kudo
14:24	CUORE: The Three Towers Test	Laura Sparks
14:36	CUORE: Cryogenic Maintenance	Alison Goodsell
14:48	Introducing Accelerator Physics to a Wider Audience	Ernest Malamud
15:00	Towards the first <i>ab initio</i> description of the deuterium-tritium fusion	Petr Navrátil
15:12	Two-Body with Confinin Potentials	Joseph McEwen
15:24	The Proof of the “Vortex Theory of Matter”	Russell Moon
15:36	Hierarchical Cross-linked F-actin Networks: Understanding Structure and Assembly	Linda Hirst
15:48	Measurement of Colloidal Interactions Using Holographic Microscopy and Multi-particle Scattering Theory	Kristopher Eric Martin
16:00	The nature of light	Hossein Keikha

Session S3, Condensed Matter II, 14:00-16:00, Saturday, Nov. 14

Room : Spanagel 321

Session Chair : Frances Houle, Stealth startup company, frances.houle@att.net

14:00	Quantum entanlement in photosynthetic light harvesting	Mohan Sarovar
14:12	Analyzing Particle Size Effects in ZnS:Cu using X-ray Absorption Spectroscopy	Scott Medling
14:24	Metallic-like photoluminescence and absorption in fused silica surface flaws	Ted Laurence
14:36	Cooling and Heating Processes in the Magnetocaloric Materials: Is Reversibility possible?	Ana L. Lima Sharma
14:48	Comparative Study of PbS and CdSe quantum dots for use in Luminescent Solar Concentrators	Georgiy Shcherbatyuk
15:00	The 1-d Long Range Diluted Heisenberg Spin Glass - A Monte Carlo Study	Auditya Sharma
15:12	Optimization of a rubidium magnetometer based on nonlinear optical rotation	Lok Fai Chan
15:24	Quantitative characterization of one-dimensional magnetic chains in organic semiconductors	Evan Silverstein
15:36	An electro-optic experimental study of an unusual liquid crystal phase transition	Daniel Staines
15:48	Electronic structure and quantum critical behavior of NbFe ₂	Brian Neal
16:00	Biologically inspired MEMS based directional microphone	Michael Touse
16:12	Little and Large: Topological Defects in Cosmology and Condensed Matter Theory	Sinead M. Griffin

Session S4, Gravitation, 14:00-16:00, Saturday, Nov. 14

Room : Spanagel 421

Session Chair : John Price, CSU Dominguez Hills, jprice@csudh.edu

14:00	Atom Wavelike Nature Solved Mathematically	Charles Sven
14:12	Yan-Mills Field from Quaternion Space Geometry and its Klein-Gordon Representation	Alexander Yefremov
14:24	Einstein's Gravity as an Emergent Local Gauge Tetrad/Spin Connection Field	Jack Sarfatti
14:36	An Educational Look at an alternative to the Expanding Universe Model	Richard Kriske
14:48	Gravity Driven Universe	Roy Masters
15:00	Standing gravitational waves from domain walls	Douglas Singleton
15:12	A WKB-like approach to Unruh radiation	Andrea de Gill
15:24	New Perspective on the Cosmological Constant Problem	Vesselin Gueorguiev
15:36	Causal Dynamical Triangulations in 3+1 Dimensions	Rajesh Kommu
15:48	Quasilocal Energy in FRW Cosmology	Marcus Afshar
16:00	Understanding Dark Energy	Howard Greyber

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