

IPS 2011

Topic	P#	Name	Title
Applied Physics	66a	Eli Flaxer	Fast Mass Programming Controller for Supper Sonic Gas Chromatography Mass Spectrometer
	66b	Eli Flaxer	Fast Mass Programming Controller for Supper Sonic Gas Chromatography Mass Spectrometer
	67a	D. Yuvaraj	Fabrication of Nb/Al(AIOx)/Nb DC SQUID by focused ion beam sculpturing
	67b	Amir Waxman	Diamond NV center magnetometry
	68a	E. Goldobin	Josephson junction with magnetic-field tunable ground state
	68b	Dima Kalaev	IONIC CONDUCTIVITY THAT LEADS TO RECTIFICATION IN SOLID STATE DEVICES
Astrophysics	83a	N. Parkansky	Titanium Submerged Arc (SA) Breakdown of Methylene Blue (MB) in Aqueous Solutions
	83b	A. Yahalom	Stability in the Weak Variational Principle of Barotropic Flows and Implications for Self-Gravitating Discs
	84a	Assaf Eitan	X-ray absorption in high redshift quasars
Biophysics	81a	M. Einat	Induced static magnetic field by a cellular phone
	81b	K.Komoshvili	Millimeter Waves Non-Thermal Effect on Human Lung Cancer Cells
	82a	Moran Yadid	SYMMETRIC MODULATION OF CROSS-BRIDGE KINETICS BY SARCOMERE VELOCITY DURING SHORTENING AND LENGTHENING IN CARDIAC TRABECULAE; A NEW INSIGHT ON SARCOMERE DYNAMICS.
	82b	Liat Rosenfeld	The in vivo transcriptional kinetics of single alleles reveals promoter regulation during the cell cycle
Computational Physics	85a	Jorge Berger	Fluctuation Current in Superconducting Loops
	85b	Alex Kouniavsky	Simulation of shear elastic moduli of copper near surfaces
	86a	Roi Levy	Source of Dephasing in 2D Disordered Systems at Low Temperatures
Correlated electron and boson systems	60a	Vadim Puller	Single molecule detection of nanomechanical motion
	60b	Miron Ya. Amusia	Confinement and correlation effects in the Xe@C60 generalized oscillator strengths
	61a	Miron Ya. Amusia	Reflection of inner shell resonances in the outer shell photoionization of endohedral atom Xe@C60
	61b	Eyal Dvash	Flux-Antiflux Instability in Channels
	62a	Noam Haham	Scaling of the anomalous Hall effect in SrRuO3
	62b	A. Auerbach	The spin-1/2 Kagome antiferromagnet: a study using contractor renormalisation
	63a	Meni Shay	Raman Scattering in CLBLCO - an analogue to the Isotope effect
	63b	Amir Erez	How to measure the spatial characteristics of the Kosterlitz- Thouless transition in disordered systems?
	64a	Nimrod Bachar	Negative Magnetoresistance at High Magnetic Fields in Granular Aluminum
	64b	Yaniv Kachlon	Perpendicular Anisotropic Magnetoresistance in Co/Pd Multilayers
Disordered systems	87a	David Gelbwaser	Quantum heat engine fueled by unread measurements
	87b	A. Yahalom	Uncertainty Relation for Chaos
High Energy Physics	70a	Rafi Milo	Absolute Time and Absolute Simultaneity
	70b	Or Hen	Short Range Correlations and the EMC Effect
	71a	Igor Korover	Experimental study of Short Range Correlations in nuclei
	71b	A. Yahalom	Faster than Light Particles within the Frame Work of Relativity
	72a	Nadav Priel	Current Challenges in Direct Detection of Dark Matter with XENON Experiment
	72b	Aielet Efrati	Asymmetric Higgsino Dark Matter
Material Physics	89a	Amir Levy	Dielectric Constant of Ionic solutions: A Field Theory Approach
	89b	I. Halevy	Structural, Electronic and Magnetic Characteristics of Np2Co17
Optics	50a	Adi Pick	Cooling Nuclear Spins in Diamond via Dark State Spectroscopy
	50b	Eliyahu Shwartz	Transition between in-and anti-phase TE-TM mode dynamics in a semiconductor laser subject to external feedback.
	51a	David Mermelstien	Probing stimulated Brillouin scattering in an optical fiber using noise-correlation radar

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Topic	P#	Name	Title
Optics	51b	Shalom Bloch	Transforming optical frequency changes to modulation-phase changes by Mutually Modulated Cross-Gain Modulation
	52a	Yuval Yifat	Slow light in Coupled VCSEL arrays
	52b	Barak Brez	Extending the ballistic regime of turbid media
	53a	Eyal Schwartz	Concepts of Fourier transform spectroscopy using a Sagnac interferometer
	53b	Yoni Shalibo	Wigner Tomography of Classical and Non-Classical States in a Superconducting Anharmonic Oscillator
	54a	Ido Barth	Control of Multi-levels Systems by Chirping
	54b	Eilon Poem	Two Photon Path-Entangled States in Multimode Waveguides
	55a	Oren Raz	Vectorial Phase Retrieval: from lensless imaging to pulse characterization and back
	55b	Alexander Pechen	Engineering arbitrary pure and mixed quantum states
	56a	Er'el Granot	Generic propagation dynamics of pulses with sharp-boundaries or singularities in dispersive media
	56b	Igor Yulevich	Rashba-Like Spin Degeneracy Breaking in Coupled Thermal Antenna Lattices
	57a	Ephraim Shamoon	Strongly interacting photons in hollow-core waveguides
	57b	Mor Verbin	Experimental Observations of Topological States and Adiabatic Pumping in Quasicrystals
	58a	Liat Dovrat	Direct measurement of the dependence of the photon-number distribution on the number of modes in parametric down-conversion
58b	Assaf Shaham	Experimental study of the decoherence of biphoton qutrits	
Plasma Physics	90a	L. Gilburd	Modified wire array underwater electrical explosion
Condensed Matter	91a	Yoav W. Windsor	Fabrication of Nb/Al(AIOx)/Nb DC SQUID by focused ion beam sculpturing
	91b	Erez Flekser	Mapping the anisotropic magnetoresistance of the interface between SrTiO3 and LaAlO3
Soft Condensed Matter & Optics	92a	Yacov Kantor	Entropic forces between polymers and scale-invariant surfaces
	92b	Adar Sonn	Two point microrheology of 2D colloidal dispersions and actin networks
Topological phases and excitations	78a	Yaron Gross	Upstream neutral modes in the fractional quantum Hall effect regime: heat waves or coherent dipoles
	78b	Yaacov E. Kraus	The strong side of weak topological insulators
	79a	Emil Weisz	Physics of an isolated electron puddle revealed via dephasing in thermal equilibrium
	79b	Jian-Hua Jiang	Non-Abelian states from k-space vortex
	80a	Jian-Hua Jiang	Helical magnetic order at the edges/surfaces of topological insulators due to Fermi surface nesting
Ultracold atoms and molecules	74a	Christine Khripkov	QUANTUM ZENO CONTROL OF COHERENT DISSOCIATION
	74b	Erez Zohar	Confinement and lattice QED electric flux-tubes simulated with ultracold atoms
	75a	S. Kallush	Quantum dynamical calculations of ultracold collisions induced by nonlinearly chirped light
	75b	David Shwa	Adiabatic to non adiabatic transition in dynamical EIT
	76a	Yuval Shagam	Towards density and phase space compression of atomic and molecular gases in static and dynamic electromagnetic traps
	76b	Ephraim Shamoon	Strongly interacting photons in hollow-core waveguides