LP-2015 Conference Program

	Tuesday: October 6	
10°	08:30Bus from Opera station in Yerevan 09:00Minibus from YSU Guesthouse in Yerevan	
09:30 - 10:00 12:00 - 13:00		
	Registration of the participants	
Morning Session Chair: Aram Papoyan		
10:00	Conference opening: Welcome talks Aram Papoyan, Director of IPR NAS	
10:30	ICO and International Year of Light 2015 Angela Guzmán CREOL, USA	
11:00	Nonequilibrium particle production in strong laser fields David Blaschke University ofWrocław, Poland	



11:30 - 13:00Lunch &Coffee Break

Afternoo	n Session Chairs: Claude Leroy
13:00	Non-exponential Auger decay Vladimir Krainov Moscow Institute of Physics and Technology, Russia
13:30	Resonant Kapitza-Dirac diffraction with small population transfer: Application for light-pulse atom interferometry Gevorg Muradyan Yerevan State University, Armenia
14:00	Thermoelectric single-photon detector on the base of CeB ₆ and (La,Ce)B ₆ nanowires Armen Kuzanyan Institute for Physical Research, NAS of Armenia
14:30	Extractable work from correlations Karen Hovhannisyan ICFO – The Institute of Photonic Sciences, Spain



15:30Bus to the hotels

	Wednesday: October 7	
Morning :	Session Chair: Ashot Petrosyan	
10:00	YAG:Ce crystals: Optimization and radiation hardness study for calorimetry applications Marco Toliman Lucchini CERN, Switzerland	
10:30	Optical properties of plasmonic metal nanostructures on the dielectric and semiconductor surfaces Tigran Vartanyan ITMO University, Russia	
11:00	Waveguide integrated plasmonic slot nano-antenna Hovhannes Haroyan Yerevan State University, Armenia	
11:30	Pumping duration effects on the 1.5 μm downconversion luminescence kinetics of Er:YAG Pavel Muzhikyan Institute for Physical Research, NAS of Armenia	
(T1)	12:00 – 13:00Lunch &Coffee Break	
Afternooi	n Session Chairs: Tigran Vartanyan	
13:00	Hanle optical vector magnetometer based on compensation of B-field Aram Papoyan Institute for Physical Research, NAS of Armenia	
13:30	A note on the Natanzon potentials for the Schrödinger equation Artur Ishkhanyan Institute for Physical Research, NAS of Armenia	
14:00	Periodically-driven exciton-photon systems Anna Shahinyan Institute for Physical Research, NAS of Armenia; YerevanState University, Armenia	
14:30	Memristive properties of transparent Li-doped ZnO films on metal and transparent oxide substrates Arsen Igityan Institute for Physical Research, NAS of Armenia; Russian-Armenia (Slavonic) University	
	15:30Bus to the hotels	

Thursday: October 8		
Morning S	Session Chair: Radik Kostanyan	
10:00	Nonlinear optical properties of gated graphene systems Anahit Djotyan YerevanStateUniversity, Armenia	
10:30	Medium transparency induced by one laser field in the presence of transverse magnetic field Anahit Gogyan Institute for Physical Research, NAS of Armenia	
11:00	Faraday Effect in an optical nano-cell Armen Sargsyan Institute for Physical Research, NAS of Armenia	

11:30 – 14:00 POSTER SESSION

Please hang the posters from the first day of the conference For the list of posters please refer to pp. 5–7



13:00 - 14:00Lunch &Coffee Break



14:00→ Sightseeing Tour

	Friday: October 9	
Morning	Session Chairs: Artur Ishkhanyan	
10:00	Controlled spatial soliton formation and guiding in nonlinear photonic lattices: Application to all-optical devices Rafael Drampyan Institute for Physical Research, NAS of Armenia	
11:00	Luminescence investigation of hafnia and zirconia thin films, nanopowders and ceramics Eduard Aleksanyan A. Alikhanyan National Science Laboratory, Armenia	
11:30	Quantum Entanglement of Field States in Third-Harmonic Generation Process Menua Gevorgyan Institute for Physical Research, NAS of Armenia	



12:00 - 13:00Lunch &Coffee Break

Afternoon SessionChairs:Gayane Grigoryan

13:00	Electrical tuning of silicon metasurfaces Andrei Komar Australian National University, Australia	
13:30	Nonlinear upconversion based on enhancement of third harmonic generation in gold nanomatryoshka; anonlinear FDTD analysis Pezhman Sasanpour Medical Physics & Biomedical Engineering, Shahid Beheshti Medical University, Iran	
14:00	Reorientation of nematic liquid crystal under the influence of laser light and electric fields Varsenik Nersesyan Institute for Physical Research, NAS of Armenia; Ghent university, Belgium	
14:30	Down-conversion in structured nonlinear fiber Anahit Tamazyan Institute for Physical Research, NAS of Armenia	



15:00 → Conference closing



16:00→Bus to the hotels

	Poster Presentations
1	New approach studying manipulation of qubits by train of pulses
	Gor Abovyan Institute for Physical Research, NAS of Armenia
2	Peculiarities of Cs atomic transition behavior in strong transverse magnetic fields
_	Arevik Amiryan
	Institute for Physical Research, NAS of Armenia
3	The silicon to aluminum conversion phenomenon in electrolytic cells
	Rafik Balasanyan Institute for Physical Research, NAS of Armenia
4	I-V characteristics of Pt-Ba _{0.25} Sr _{0.75} TiO ₃ -Pt thin films with oxygen vacancies
1	Vahe Buniatyan
	Institute for Physical Research, NAS of Armenia
5	Optical and scintillation properties of GGG:Ce single crystals
	Tatyana Butaeva Institute for Physical Research, NAS of Armenia
6	Photoconductivity of iron doped LiNbO ₃ crystals of different stoichiometry
ľ	Anush Danielyan
	Institute for Physical Research, NAS of Armenia
7	The formation of metastable molecular states at the resonance scattering of two atoms
	in a laser radiation field Emil Gazazyan
	Institute for Physical Research, NAS of Armenia
8	Resonant and non-resonant approximation for three level system
	Emil Gazazyan Institute for Physical Research, NAS of Armenia
9	Efficient adiabatic tracking for molecular Bose-Einstein condensate production with Kerr
	nonlinearities
	Mariam Gevorgyan
10	Institute for Physical Research, NAS of Armenia Phase locking in parametrically driven nonlinear Kerr resonator
10	Tigran Gevorgyan
	Institute for Physical Research, NAS of Armenia
11	Nonlinear optical properties of Zn ₄ B ₆ O ₁₃
	Virab Gevorgyan
12	Yerevan State University, Armenia On scattering phase chiffs in 2D electron systems
12	On scattering phase shifts in 2D electron systems Levon Hovakimian
	Institute of Radiophysics and Electronics, NAS of Armenia
13	Toward to effective photon blockade: Pulse-shape dependent and temperature effects
	Gor Hovsepyan Institute for Physical Research, NAS of Armenia
	montate for Engoldi nesearch, NAS of Armenia

14	Detection of IR laser pulses in the transparent ferromagnet
	Hakob Julfayan
	Institute of Radiophysics and Electronics, NAS of Armenia
15	Numerical study of spectron phase peculiarities
	Narek Karapetyan
	Yerevan State University, Armenia
16	Multilayer sensor of thermoelectric single photon detectors
	Astghik Kuzanyan
	Institute for Physical Research, NAS of Armenia
17	Spectral peculiarities of nonlinear-dispersive similariton
	Karapet Manukyan
	Yerevan State University, Armenia
18	Temperature dependence of current–voltage characteristic of pulsed laser deposited
	(p)InSb/(n)CdTe heterostructure
	Artsruni Margaryan
	Institute of Radiophysics and Electronics, NAS of Armenia
19	Helical m=1 mode formation dependence on spiral phaseplate properties
	Artur Martirosyan
	Institute for Physical Research, NAS of Armenia
20	Ho ³⁺ ions doped lithium niobate: Electro-optic and dielectric properties
	Anush Movsesyan
	Institute for Physical Research, NAS of Armenia
	Armenian State Pedagogical University
21	The investigation of laser irradiation influence on the properties of CuO single crystals,
	coated by metal film
	Svetlana Pashayan
	Institute for Physical Research, NAS of Armenia
22	Non-linear spectroscopy of Rb vapor in a nanocell: The role played by excited atom-wall
	collisions in blue light generation
	Pavel Petrov
22	ITMO University, Russia
23	Photoelectric properties of granular ZnO films
	Armen Poghosyan
	Institute for Physical Research, NAS of Armenia
24	EIT resonances inverted in a transverse magnetic field
	Armen Sargsyan
	Institute for Physical Research, NAS of Armenia
25	Splitting of EIT resonance in longitudinal and transverse magnetic fields realized in 1 cm
	long Potassium buffered cell
	Armen Sargsyan
	Institute for Physical Research, NAS of Armenia
26	The study of computational ghost imaging in presence of turbulence
	Parisa Soleimani
	University of Tabriz, Iran

27	Solitonic spectral self-compression of randomly modulated pulses
	Minas Sukiasyan
	Yerevan State University, Amenia
28	Laser-induced modification of copper oxide nanoparticles synthesized by laser ablation
	technique
	Nikolai Tarasenko
	B.I. Stepanov Institute of Physics, NAS of Belarus
29	Behavior of D ₁ line atomic transitions of 39K isotope in the presence of strong external
	magnetic fields
	Ara Tonoyan
	Institute for Physical Research, NAS of Armenia
30	Transport properties of CaLaBaCu₃O _x and SrLaBaCu₃O _x ceramics
	Violetta Vardanyan
	Institute for Physical Research, NAS of Armenia
31	Influence of Ce ion on ${}^4I_{13/2} \rightarrow {}^4I_{15/2}$ transition luminescence kinetics under varying
	pumping durations in Er,Ce:YAG crystals
	Davit Zargaryan
	Institute for Physical Research, NAS of Armenia
32	Electron-Beam Deposition of Lanthanum-Magnesium-Hexaaluminate
	Silva Petrosyan
	Institute for Physical Research, NAS of Armenia