12th Patras 2016 Workshop on Axions, WIMPs,	
and WISPs	
Jeju Island in South Korea, Suites Hotel	
Sunday evening, 19 June, Registration and light refreshments, at	
Suites Hotel	
Monday, 20 June 2016	
Room	

Start Time	e Durati	on	Chair:
08:30	00:30	Conference Registration	Local Organizing Committee
09:00	00:15	Welcome and introduction	Yannis Semertzidis
09:15	00:30	CP-conservation in QCD; Why only axions work?	Jihn E. Kim
09:45	00:20	Status of KIMS-NAI Experiment	Jungsic Park
10:05	00:25	Latest results with the KWISP force sensor at CAST	Giovanni Cantatore
10:30	00:30	Search for hidden particles with SHiP	Chun Sil Yoon
<mark>11:00</mark>	00:30	COFFEE BREAK	
11:30	00:20	Launching the axion dark matter experiment at CAPP/IBS in Korea	Woohyun Chung
11:50	00:25	The local DM distribution from hydrodynamic simulations	Nassim Bosorgnia
12:15	00:20	Dark Energy at colliders	Christoph Englert
		Single Microwave Photon Detectors for High Frequency Axion	
12:35	00:20	Detection	Chou Aaron
<mark>13:00</mark>	14:00	Lunch	

14:00	00:20	Detecting very low mass Dark Matter particles with NEWS-SNO	Gilles Gerbier
14:20	00:20	SIMP DM with discrete symmetries	Soo-Min Choi
14:40	00:20	Status and Recent Results from the PandaX Experiment	Mengjiao Xiao
15:00	00:20	Nonperturbative Dynamics in DM Freezout	William Shepherd
15:20	00:20	NEWS: Nuclear Emulsions for WIMP Search	Murat Guler
15:40	00:20	The CRESST experiment: Current status and future development	Marc Wuestrich
16:00	00:30	COFFEE BREAK	
16:30	00:35	WIMP direct detection: towards a minimal set of assumptions LIGO, GW150914: a black hole binary merger discovered by	Paolo Gondolo
17:05	00:35	gravitational-wave observation	Chunglee Kim
17:40	00:20	QUAX and AXIOMA: new experimental methods in axion detection	Caterina Braggio
18:00		END	

## Tuesday, 21 June 2016 Room

Start Time	e Durati	on	Chair:
08:30	00:30	Conference Registration	Local Organizing Committee
09:00	00:35	Status of the Cosmic Axion Spin Precession Experiment (CASPEr)	John W. Blanchard
09:35	00:20	LUX	Simon Fiorucci
09:55	00:20	GERDA - Phase I results and news from the phase II upgrade	Katharina von Sturm
10:15	00:20	Preliminary study for a New Axion Dark-Matter Haloscope	Pierre Pugnat
		SUSY DM predictions for Direct Detection Experiment, the LHC and	
10:35	00:20	the ILC	Miriam Lucio Martínez
<mark>11:00</mark>	00:30	COFFEE BREAK	
11:30	00:20	Status of the XENON experiment	Junji Naganoma

11:50	00:20	Dark Matter Search with DARWIN	Moritz von Sivers
12:10	00:20	Monopole Searches at the LHC: new results and future plans	Jim Pinfold
12:30	00:20	The LUX-ZEPLIN Dark Matter Experiment	Isabel Lopes
<mark>13:00</mark>	14:00	Lunch	
			_
14:00	00:20	An abundance of relaxions?	Chanda Prescod-Weinstein
14:20	00:20	Axion haloscopes with toroidal geometry at CAPP/IBS	Byeong Rok Ko
14:40	00:20	Searches for Axion-Like Particles with NGC1275	Sven Krippendorf
15:00	00:20	Axion search with the CDEX-1 experiment	Shukui Liu
15:20	00:20	New limits on heavy ALPS: an analysis of SN1987A, again	Pedro Cavalcanti Malta
15:40	00:20	Gamma-rays as probes for axion-like particles	Manuel Meyer
16:00	00:30	COFFEE BREAK	
		Dish antenna Searches for WISPy DM: Directional Resolution and	
16:30	00:20	Limitations for Small Masses	Stefan Knirck
16:50	00:20	DarkSide WIMP Search with Underground Argon	Masayuki Wada
		Layered dielectric haloscopes: a new approach to detect axion DM	
17:10	00:20	Layered dielectric haloscopes. a new approach to detect axion Divi	Alexander Millar
17:30	00:20	The Sun and its Planets as detector for invisible matter	Sergio Bertolucci
18:00		END	

Wednesday, 22 June 2016	
Room	

## Start Time Duration

09:00 00:35 Big neutrino projects

09:35 00:20 Parton distributions in the search for Dark Matter

## **Chair:** Kam-Biu Luk Timothy Hobbs

09:55	00:20	Relaxion with multiple axions	Kiwoon Choi
10:15	00:20	Searching for Dark Matter candidate with the AURIGA detector	Antonio Branca
10:35	00:20	Latest results from the DAMIC experiment	Diego Torres-Machado
<mark>11:00</mark>	00:30	COFFEE BREAK	
11:30	00:20	Recent results and future plans of XMASS	Byeongsu Yang
11:50	00:25	Status of the ADMX-HF Extreme Axion Experiment	Samantha Lewis
12:15	00:20	Formation of Axion Miniclusters	Javier Redondo
12:35	00:20	DEAP-3600	Jocelyn Monroe
13:00	14:00	Lunch	

14:00	Excursion
	Excursion to Tropical Hallim Park
	"Hallim park is one of the most popular tourist spots on
	Jeju Island with nine fantastic theme parks full of exotic
	sentiment. Hyeopjae beach and an olle trail nearby are also
	enjoyable."
18:00	END

Thursday, 23 June 2016
Room

Start Time	e Durati	on	Chair:
09:00	00:45	ATLAS/CMS	Alex Martyniuk
		Search for bosonic dark matter with the MAJORANA	
09:45	00:25	DEMONSTRATOR	Christopher O'Shaughnessy
10:10	00:20	Aharonov Bohm type experiments	Paola Arias
10:30	00:25	Commissioning of the ADMX Gen 2 Dark Matter Search	Gray Rybka
<mark>11:00</mark>	00:30	COFFEE BREAK	
11:30	00:20	A new QCD DM axion search using a dielectric resonant cavity	Bela Majorovitz
		Dark Matter Searches for Monoenergetic Neutrinos Arising from	
11:50	00:20	Stopped Meson Decays in the Sun	In Seongjin
12:10	00:20	STAX: A search for axion-like particles with sub-THz photons	Jacopo Ferretti
		Beyond the Dark Matter effective field theory and a simplified	
12:30	00:20	model approach at colliders: Higgs partal DM as examples	Pyungwok Ko

13:00	14:00	Lunch	
14:00	00:20	Status and prospect of CDEX and China Jinping underground lab	Hao Jiang
14:20	00:20	Simulations of ultralight axion dark matter halos	Jens Niemeyer
14:40	00:20	Cosmological relaxation of the Electroweak scale	Surjeet Rajendran
15:00	00:20	Diphoton resonance confronts dark matter	Yoojin Kang
15:20	00:20	Any Light Particle Search II (ALPS II)	Aaron Spector
15:40	00:20	Multiple-cavity detectors for axion dark matter search	SungWoo Youn
<mark>16:00</mark>	00:30	COFFEE BREAK	
16:30	00:20	Poster Session at Suites Hotel Lobby	
16:50	00:20	Poster Session at Suites Hotel Lobby	
17:10	00:20	Poster Session at Suites Hotel Lobby	
17:30	00:20	Poster Session at Suites Hotel Lobby	
18:00		Conference dinner	
		Conference Dinner talk by K. Zioutas	

## Friday, 24 June 2016

Room

Start Time	Duration		Chair:	
		SM*A*S*H - Standard Model * Axion * See-saw * Hidden scalar		
09:00	00:35	inflation	Andreas Ringwald	
09:35	00:20	The CAST-CAPP/IBS Detector Project: Progress and Challenges	Lino Miceli	
09:55	00:20	Search for dark particles at BELLE	Eunil Won	
10:15	00:20	Latest results from IceCube	Carsten Rott	
10:35	00:20	A new detector at the LHC to search for millicharge particles	Gabriel Magill	
11:00	00:30	COFFEE BREAK		
11:30	00:20	Dark matter research cluster based on computational science	Kihyeon Cho	

11:50	00:20	Preliminary data analysis of OSCAR-CHASE results	Pierre Pugnat
12:10	00:20	New Coupling Constrains on Light Bosons beyond the SM	Changbo Fu
12:30	00:30	Small Scale Structure of Dark Matter	Subha Majumdar
13:00	00:20	Strings and their Cores	Leesa Fleury
14:20	00:20	CMB polarization and pseudoscalar particles	Damian Ejlli
13:40 14:00	00:20 00:20	High and low mass axion haloscopes at Univ. of Western Australia Status of CUORE: an observatory for neutrinoless double beta decay and other rare events	Ben McAllister Maria Martinez
14.00	00.20	uecay and other rare events	
<mark>14:30</mark>	15:30	Lunch	

15:30 End of Patras 2016 workshop