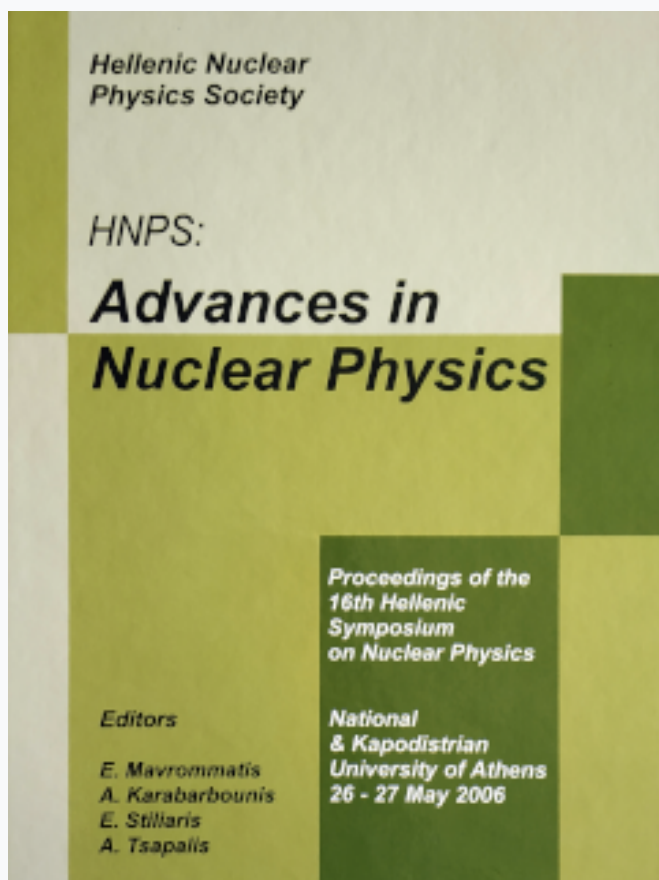


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16th Hellenic Symposium on Nuclear Physics Conference Program

Friday, 26-May-2006

08:30 – 09:00	Registration
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09:00 – 09:30	Welcome – Opening Remarks
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Session I **Chair: S. Massen (Univ. of Thessaloniki)**

09:30 – 10:05	Papanicolas C.N. (UoA)	The Pion Cloud and the Shape of Hadrons
10:05 – 10:40	Kowalski S. (MIT)	Parity Violation in Electron Scattering Experiments
10:40 – 11:00	Tetradis N. (UoA)	The Quark-Meson Model and the Phase Diagram of QCD
11:00 – 11:15	Sparveris N.F. (UoA)	Determination of quadrupole strengths in the $\gamma^*N \rightarrow \Delta(1232)$ transition at the low momentum transfer region
11:15 – 11:30	Tsapalis A. (UoA)	Nucleon Electromagnetic Structure from Lattice QCD
11:30 – 11:50	Coffee	

Session II **Chair: S. Harissopoulos (NCSR “Demokritos”)**

11:50 – 12:25	Vretenar D. (Zagreb)	Nuclear energy density functional constrained by low-energy QCD
12:25 – 12:45	Lalazissis G. (UoTh)	Isospin Dependence of Covariant Density Functionals
12:45 – 13:05	Anagnostatos G. (Demokritos)	Distribution of probability maxima of the antisymmetrized wave function for the nucleons of a shell and for all nucleons of a nucleus
13:05 – 13:20	Papaconstantinou P. (TU Darmstadt)	Description of Nuclear Collectivity Using Correlated Realistic Interactions
13:20 – 13:35	Papachristou P. (UoA)	Decay widths of Isoscalar Giant Monopole Resonances: Regular and Chaotic Dynamics
13:35 – 15:00	Lunch & Coffee	
15:00 – 15:30	Poster Session	

Session III

Chair: P. Assimakopoulos (Univ. of Ioannina)

15:30 – 16:05	Tzanakos G. (UoA)	First Observation of Muon Neutrino Disappearance in the MINOS Experiment
16:05 – 16:25	Nicolis N. (UoI)	Sequential binary decay of light nuclear systems
16:25 – 16:45	Kokkoris M. (NTUA)	Differential Cross Section Measurements of the $^{12}\text{C}(\text{d},\text{p}_{1,2,3})^{13}\text{C}$ Reactions in the Energy Range $E_{\text{d, lab}} = 900\text{-}2000$ keV for Nuclear Reaction Analysis
16:45 – 17:00	Patronis N. (NTUA)	Study of the $^{191}\text{Ir}(\text{n},2\text{n})^{190}\text{Ir}$ reaction cross section
17:00 – 17:15	Galanopoulos S. (NTUA)	Statistical model calculations on natural Ge
17:15 – 17:30	Spyrou A. (Demokritos)	A high efficiency γ ray detection system for capture reaction cross section measurements relevant to stellar nucleosynthesis
17:30 – 17:45	Coffee	
17:45 – 19:45	General Assembly	
21:15	Banquet	

Saturday, 27-May-2006

Session IV

Chair: G. Lalazissis (Univ. of Thessaloniki)

09:00 – 09:35	Bonatsos D. (Demokritos)	Connecting the $X(5)-\beta^2$, $X(5)-\beta^4$, and $X(3)$ models to the shape/phase transition region of the Interacting Boson Model
09:35 – 09:55	Moustakidis Ch. (UoTh)	Nuclear symmetry energy effects on neutron star properties
09:55 – 10:10	Fossion R. (INFN Padova)	Nuclear phase transitions near the critical points: a study with Relativistic Mean-Field and Boson Coherent States
10:10 – 10:25	Mertzimekis Th. (MSU)	Probing the $T_z=-3/2$ nuclei via magnetic moment measurements
10:25 – 10:40	Lenis D. (Demokritos)	Parameter-free solution of the Bohr Hamiltonian for actinides critical in the octupole mode
10:40 – 10:55	Petrellis D. (Demokritos)	$X(3)$: an exactly separable γ -rigid version of the $X(5)$ critical point symmetry
10:55 – 11:20	Coffee	

Session V

Chair: R. Vlastou (Nat. Tech. Univ. of Athens)

11:55 – 12:15	Karaiskos P. (UoA)	Current trends in the endorsement and quality assurance of contemporary radiotherapy applications
12:15 – 12:30	Polychronopoulou A. (UoA)	Position and Energy Resolution Study of a γ -Camera based on a Position Sensitive PMT
12:30 – 12:45	Patiris D. (UoI)	TRIAC II: A Matlab code for counting and recognition of tracks' characteristics from images of SSNTDs
12:45 – 13:00	Serris M. (NTUA)	Study of the $(n,2n)$ reaction cross section on ^{174}Hf isotope
13:00 – 13:15	Gaitanos Th. (Muenchen)	Constraints on the nuclear Equation of State from finite nuclei, neutron stars and heavy ion collisions
13:15 – 13:30	Prassa V. (UoTh)	Particle production in intermediate Heavy Ion Collisions
13:30 – 13:45	Costiris N. (UoA)	Global model for β^- Decay Half-Lives using neural networks
13:45 – 15:00	Lunch & Coffee	

Session VI

Chair: C. Kalfas (NCSR "Demokritos")

15:00 – 15:35	Antoniou N. (UoA)	Critical QCD phenomena in relativistic nuclear collisions
15:35 – 15:55	Aslanoglou X. (UoI)	CASTOR: Research for Strange Objects at the Experiment CMS at CERN
15:55 – 16:15	Maintas X. (UoA)	Bound state effects in transverse momentum parton distributions
16:15 – 16:30	Kapoyannis A. (UoA)	The critical endpoint of Bootstrap and Lattice QCD matter
16:30 – 16:45	Saridakis M. (UoA)	Evolution of Critical Correlations at the QCD Phase Transition
16:45 – 17:00	Chasioti V. (UoI)	Cross section calculations for neutrino-nucleus reactions in ^{40}Ar , ^{98}Mo nuclei
17:00 – 17:20	Kosmas Th. (UoI)	Detection rates of cold dark matter candidates by using deformed Hartree-Fock method
17:20 – 17:30	Concluding Remarks - End of the Symposium	

List of Participants

Last Name	First Name	Affiliation
Anagnostatos	Gerasimos	NCSR <i>Demokritos</i> / INP
Angelopoulos	Angelos	University of Athens
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Aslanoglou	Xenophon	University of Ioannina
Athanasiadis	Konstantinos	Tech. Institute of Thessaloniki
Athanassopoulos	Sotirios	University of Athens
Bokoros	Panagiotis	University of Patras - NCSR <i>Demokritos</i>
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Kapoyannis	Athanasios	University of Athens
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Kontos	Antonios	National Technical University of Athens
Kosmas	Theoharis	University of Ioannina
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Mavrommatis	Eirene	University of Athens
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Mikeli	Mairi	University of Athens

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Papaioanou	Athanasios	University of Athens
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Sparveris	Nikolaos	University of Athens

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Vlastou	Rosa	National Technical University of Athens
Vretenar	Dario	University of Zagreb
Zafiropoulou	Adamantia	NCSR <i>Demokritos</i> / INTRP

History of the Panhellenic Symposium on Nuclear Physics

1 st	(1990)	University of Thessaloniki (theory only)
2 nd	(1991)	NCSR "Demokritos" and University of Athens
3 rd	(1992)	Technical Educational Institute of Athens
4 th	(1993)	University of Ioannina
5 th	(1994)	University of Patras
6 th	(1995)	Technical Educational Institute of Piraeus
7 th	(1996)	Technical Educational Institute of Athens
8 th	(1997)	University of Thessaloniki
9 th	(1998)	University of Ioannina
10 th	(1999)	NCSR "Demokritos"
11 th	(2000)	University of Thessaloniki
12 th	(2002)	NCSR "Demokritos"
13 th	(2003)	University of Ioannina
14 th	(2004)	National Technical University of Athens
15 th	(2005)	University of Thessaloniki
16 th	(2006)	University of Athens