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### Editorial Comments and Symposium Info (End Matter)

*/ Editorial Comments*

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# 16<sup>th</sup> Hellenic Symposium on Nuclear Physics Conference Program

Friday, 26-May-2006

08:30 – 09:00      **Registration**

09:00 – 09:30      **Welcome – Opening Remarks**

## **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 $^{12}\text{C}(d,p_{1,2,3})^{13}\text{C}$ Reactions in the Energy Range $E_{d, \text{lab}} = 900\text{-}2000$ keV for Nuclear Reaction Analysis
16:45 – 17:00	Patronis N. (NTUA)	Study of the $^{191}\text{Ir}(n,2n)^{190}\text{Ir}$ 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 $\gamma$ ray detection system for capture reaction cross section measurements relevant to stellar nucleosynthesis
17:30 – 17:45	<b>Coffee</b>	
17:45 – 19:45	<b>General Assembly</b>	
21:15	<b>Banquet</b>	

**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  $\gamma$ -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  $\gamma$ -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  $^{174}\text{Hf}$  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  $\beta^-$  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 $^{40}\text{Ar}$ , $^{98}\text{Mo}$ 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	<b>Concluding Remarks - End of the Symposium</b>	

## List of Participants

Last Name	First Name	Affiliation
Anagnostatos	Gerasimos	NCSR <i>Demokritos</i> / INP
Angelopoulos	Angelos	University of Athens
Antoniadou	Eirini	University of Athens
Antoniou	Nikolaos	University of Athens
Asimakopoulos	Panagiotis	University of Ioannina
Aslanoglou	Xenophon	University of Ioannina
Athnasiadis	Konstantinos	Tech. Institute of Thessaloniki
Athanassopoulos	Sotirios	University of Athens
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Bonatsos	Dionysios	NCSR <i>Demokritos</i> / INP
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Giantsoudi	Drosoula	National Technical University of Athens

Last Name	First Name	Affiliation
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Kapoyannis	Athanasios	University of Athens
Karabarbounis	Andreas	University of Athens
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Kerasovitis	Ioannis	University of Athens
Kokkoris	Michalis	National Technical University of Athens
Kontos	Antonios	National Technical University of Athens
Kosmas	Theoharis	University of Ioannina
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Massen	Stylianos	University of Thessaloniki
Mavrommatis	Eirene	University of Athens
Mertzimekis	Theodoros	Michigan State University
Mikeli	Mairi	University of Athens

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Misailidis	Panagiotis	University of Thessaloniki
Moustakidis	Charalambos	University of Thessaloniki
Nicolis	Nikolaos	University of Ioannina
Nikolaou	Georgios	University of Thrace
Panos	Constantinos	Emeritus Professor, TEI
Papachristou	Pantelis	University of Athens
Papaefthymiou	Heleny	University of Patras
Papaioanou	Athanasios	University of Athens
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Papatheodorou	Georgios	University of Patras
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Sparveris	Nikolaos	University of Athens

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