

VIII. INTERNATIONAL WORKSHOP ON NUCLEAR STRUCTURE PROPERTIES

7-10 September 2015, Sakarya-Turkey

WORKSHOP PROGRAMME

1st Day (7 September 2015)

09.00-09.30	Registration	
09.30-10.30	Opening Ceremony	
10.30-11.00	Coffee Break	
11.00-11.50	CHAIRMAN: Prof. Dr. İhsan ULUER Prof. Dr. Ali Ekber KULIEV (Invited speaker)	The Role of Collective Motion on Magnetic Moments and Gyromagnetic Factors in Nuclei
11.50-12.10	TALK 1 (Younes EL BASSEM)	Ground State Properties of Even-Even and Odd Nd, Ce and Sm Isotopes in Hartree-Fock-Bogoliubov Method
12.10-12.30	TALK 2 (Azam KARDAN)	Structure of ND bands in Hf isotopes
12.30-12.50	TALK 3 (Azam KARDAN)	Role of Non-Axial Hexadecapole Shapes in the Fission Barrier
12.50-13.50	Lunch (SAU Dining Hall)	
13.50-14.40	CHAIRMAN: Prof. Dr. Ismail BOZTOSUN Prof. Dr. Robert PAGE (Invited speaker)	New results on proton emission from spherical nuclei
14.40-15.00	TALK 4 (Rasmiyya Gasimova)	Exclusion principle and selection rule for neutrino-charged lepton processes in strong magnetic field
15.00-15.20	TALK 5 (Nafiseh Shayan SHAKIB)	Calculating Fission Barrier & Paths Influenced by Proton and Neutron Magicity
15.20-15.40	TALK 6 (Abdelwahed El BATOUL)	Analytical solutions of the d-dimensional Schrödinger equation with deformed Woods-Saxon potential plus double ring-shaped potential
15.40-16.00	TALK 7 (Rohallah RAZAVI)	Studying thermal properties of ⁴⁵ Sc in static path approximation
16.00-16.20	Coffee Break	
16.20-17.10	CHAIRMAN: Prof. Dr. Osman YILMAZ Dr. David JOSS (Invited speaker)	Evolution of collective structures in the heavy transitional nuclei above N=82
17.10-17.30	TALK 8 (Bahadır SAYGI)	Test of Collectivity in ¹⁶⁶ W and ¹⁶⁸ Os Deformed Nuclei with Plunger Device
17.30-17.50	TALK 9 (Bernard SCHAEFFER)	Rutherford anomaly solved
17.50-18.10	TALK 10 (Gülşah KAYA)	Properties of Hyperons at Finite Temperature
18.10-18.30	TALK 11 (Gülşah KAYA)	Investigations of Light Decuplet Baryons within Thermal QCD Sum Rules
18:30-19:00	POSTER SECTION	P1-P25
19.00-22.00	DINNER (Sapanca Lake)	

2rd Day (8 September 2015)

09.00-09.50	CHAIRMAN: Prof. Dr. Robert PAGE Prof. Dr. Osman YILMAZ (Invited speaker)	Nucleon Exchange in Heavy-ion Collisions
09.50-10.10	TALK 12 (Azam KARDAN)	Yrast Bands in ¹⁶¹⁻¹⁶⁹ Lu Isotopes
10.10-10.30	TALK 13 (Azam KARDAN)	Description of Structure of Triaxial Superdeformed Bands in ¹⁶⁷ Lu
10.30-10.50	Coffee Break	
10.50-11.40	CHAIRMAN: Dr. David JOSS Prof. Dr. Jameel-Un NABI (Invited speaker)	Nuclear Abundance in Stellar Matter
11.40-12.00	TALK 14 (Muhammed Ayup FARIDI)	High Energy Thermionic Electron Beam Guns for Accelerators
12.00-12.20	TALK 15 (Gülşah KAYA)	The Mass and Residue of the Nucleon at Finite Temperature
12.20-12.40	TALK 16 (Rasmiyya Gasimova)	Method of distinguishing antineutrino flavor in a magnetic field
12.40-13.00	TALK 17 (Boutheina Boutabia-Chéraitia)	Von Neumann's approach for integer spin particles in a box
13.00-13.50	Lunch (SAU Dining Hall)	
14.00-22.00	TOUR PROGRAM (Justinian Bridge, Poyralar Lake, Acarlar Deep Spot Area, Karasu) DINNER (Karasu Gölpark)	

3rd Day (9 September 2015)

09.00-09.50	CHAIRMAN: Prof. Dr. Jameel-Un NABI Prof. Dr. Ismail BOZTOSUN (Invited speaker)	
09.50-10.10	TALK 18 (Nafiseh Shayan SHAKIB)	Dissipation Energy Among Z-channels in Fission, Alpha-Decay and Cluster Emission for ²⁴⁴ Pu
10.10-10.30	TALK 19 (Mikail DİREKÇİ)	Optical Model Analysis of ⁷ Be + ¹² C Elastic Scattering System at E _{Lab} = 18.8 MeV
10.30-10.50	TALK 20 (Şule KARATEPE)	Scattering of ¹⁷ F exotic nuclei from ²⁰⁸ Pb target at 90.4, 98 and 170 MeV
10.50-11.10	Coffee Break	
11.10-12.00	CHAIRMAN: Prof. Dr. Ali Ekber KULIEV Prof. Dr. Niyazi MERIC (Invited speaker)	
12.00-12.20	TALK 21 (Can ERGUTAY)	Determination of Energy Levels and Half Lives of Nickel Isotopes using Photonuclear Reactions
12.20-12.40	TALK 22 (Ekrem ÇİÇEK)	Effects of Ionizing Radiation on Extracellular Matrix
12.40-13.00	TALK 23 (Sadiye ÇAKMAK)	Compared with Results of Gamow-Teller Transitions in used Different Models for ⁶⁵⁻⁷⁸ Ni Isotopes
13.00-13.50	Lunch (SAU Dining Hall)	
13.50-14.25	CHAIRMAN: Prof .Dr. Cevad SELAM Prof. Dr. Sefa ERTÜRK (Invited speaker)	The Role of Turkey in International Nuclear Structure Studies and Detector Technologies: EXOGAM2, NEDA, PARIS and NUSTAR/FAIR
14.25-14.40	CHAIRMAN: Prof .Dr. Cevad SELAM Prof. Dr. Nizamettin ERDURAN (Invited speaker)	Collaborative efforts towards the future FAIR experiments: NUSTAR-TR
14.40-15.00	TALK 24 (Aydan ALTIKULAÇ)	Activity Concentration Of Anthropogenic Radionuclides in Soil Samples
15.00-15.20	TALK 25 (Vakkas BOZKURT)	Hypernuclear spectroscopy with heavy ion beams: The HypHI Phase 0.5 Experiment at GSI
15.20-15.40	TALK 26 (Volkan SARIKAYA)	90-104 Kütle Bölgesindeki Küresel Çift-Çift Kr İzotoplarında Gamow Teller Geçiş Özelliklerinin İncelenmesi
15.40-16.00	TALK 27 (Kawa HAMDOSH)	80-94 Kütle Bölgesindeki Ge İzotoplarının Beta Geçiş Özelliklerinin Pyatov Yöntemiyle İncelenmesi
16.00-16.20	Coffee Break	
16.20-17.10	CHAIRMAN: Prof .Dr. Nizamettin ERDURAN Prof .Dr. Cevad SELAM (Invited speaker)	A Self-Consistent Investigation of Isospin Impurity in Nuclear Ground States
17.10-17.30	TALK 28 (Hasan GÜLBİÇİM)	The Investigation of Vermiculite and Vermiculite-Borax Mixture As An Alternating Shielding Material For Gamma and X-Rays
17.30-17.50	TALK 29 (Otman JAI)	Evaluation of the Effective Multiplication Factor of the Slowpoke-2 Reactor Using Dragon4 and Donjon4 Codes
17.50-18.10	TALK 30 (Serkan AKKOYUN)	Improvement of Semi-empirical mass formula coefficients by neural nets
18.10-18.30	TALK 31 (Mahmut BÖYÜKATA)	The supersymmetry in nuclei and its application to odd-A ¹⁷¹ Yb nucleus
18.30-18.50	TALK 32 (Ayçin BORA)	Evaluation of Absorbed Fractions for Specific Radionuclides Used in Nuclear Medicine for Unit Density Spheres of Various Sizes with Monte Carlo Simulation
19.00-22.00	DINNER (Sakarya Park)	

4 th Day (10 September 2015)		
09.00-09.50	CHAIRMAN: Prof. Dr. Sefa ERTÜRK Prof. Dr. Ramesh K. GUPTA (Invited speaker)	Higher Order Interacting Terms in IBM for O (6) nuclei
09.50-10.10	TALK 33 (Melek GÖKBULUT)	Application of Nikiforov-Uvarov Method to X(5) Critical Point Symmetry
10.10-10.30	TALK 34 (Melek Yılmaz ŞENGÜL)	Heavy Lepton Pair Production at RHIC and LHC
10.30-10.50	TALK 35 (Abdessamad DIDI)	Modelisation and Distribution of Neutron flux Source Radium-Beryllium (²²⁶ Ra-Be)
10.50-11.10	Coffee Break	
11.10-12.00	CHAIRMAN: Prof. Dr. Ramesh K. GUPTA Prof. Dr. Takhmasib M. ALIEV (Invited speaker)	Diagonal and transition magnetic moments of negative parity baryons in QCD
12.00-12.20	TALK 36 (Tuncay BAYRAM)	On the Ground State Nuclear Properties of Sg Nuclei
12.20-12.40	TALK 37 (Bora CANBULA)	The role of the renormalization coefficients in photonuclear reactions
12.40-13.00	TALK 38 (Deniz CANBULA)	Calculation of the asymptotic level density parameter with different single particle potentials
13.00-14.00	Lunch (SAU Dining Hall)	
14.00-14.50	CHAIRMAN: Prof. Dr. Takhmasib M. ALIEV Assoc. Prof .Dr. Ekber GULIYEV (Invited speaker)	Pygmy Dipole Resonance in Nuclei. Theory and Experiment
14.50-15.10	TALK 39 (Yusuf KAVUN)	Enhance of National Nuclear Safety Culture and Prediction of Possible Core Accidents in Akkuyu Nuclear Power Plant
15.10-15.30	TALK 40 (Huseynqulu GULIYEV)	¹¹²⁻¹²⁴ Sn İzotoplarında Pigmy Dipol Rezonansın Sistematik İncelenmesi
15.30-15.50	TALK 41 (Alp CESUR)	Investigation of Applicability of the Photo-Activation Method
15.50-16.10	TALK 42 (Elif Kemah)	Yeni Nesil Hızlandırıcı Kaynaklı Kritik Altı Reaktör Sisteminin(ADS) Nükleer Enerji Üretiminde İncelenmesi
16.10-16.30	Coffee Break	
16.30-17.20	CHAIRMAN: Prof. Dr. Niyazi Meriç Assoc. Prof .Dr. Erdal DİKMEN (Invited speaker)	Single-shell states for multi-shell model description of ^{117,119} Sn and Comparison of new ab initio effective interactions for sd-shell
17.20-17.40	TALK 43 (Sultan Şahin BAL)	Determination of the Gross Alpha-Beta Radioactivity Levels in Some of Medicinal and Aromatic Plants
17.40-18.00	TALK 44 (Sultan Şahin BAL)	Investigation of the Alpha and Beta Radioactivity in Drinking Water: A Case Study from the Rahva Area
18.00-19.00	CONCLUDING REMARKS	