

**VII. INTERNATIONAL WORKSHOP ON NUCLEAR STRUCTURE PROPERTIES**  
**27 – 29 October 2014 Sinop-Turkey**  
**WORKSHOP PROGRAMME**

<b>1st Day (27 October 2014)</b>		
09:00 - 10:00	Registration	
10:00 - 10:30	Opening Ceremony	
10:30 - 11:00	<u>Ismail BOZTOSUN</u> (Invited Talk)	<i>Contribution of Akdeniz University to Experimental Nuclear Physics Research and Application in Turkey: The results of First photonuclear Reaction and Photofission</i>
11:00 – 11:30	<u>Salih SARI</u> (Invited Talk)	<i>Nuclear Energy Agenda of Turkey and ATMEA1 Design</i>
11:30 - 11:40	<i>Break</i>	
<b>Chairman: Prof.Dr. İsmail BOZTOSUN</b>		
11:40 - 12:10	<u>Jameel-UN NABI</u> (Invited Talk)	<i>Stellar U1F Beta Decay Rates for r-process Calculations</i>
12:10 - 12:40	<u>Lorenzo FORTUNATO</u> (Invited Talk)	<i>Comparison of Quantum Shape Phase Transitions in Even Odd Nuclei</i>
12:40 - 13:30	<i>Lunch</i>	
<b>Chairman: Prof.Dr. Jameel-UN NABI</b>		
13:30 - 14:00	<u>Osman YILMAZ</u> (Invited Talk)	<i>Nuclear Instabilities and Baryon Correlation Functions</i>
14:00 - 14:20	<u>Erdal DİKMEN</u> , O. OZTURK	<i>Shell Model Description of 111,113,115Sn</i>
14:20 - 14:40	<u>Ali TUTAY</u>	<i>Ağır İyon Reaksiyonlarında Çoklu Parçalanma (Multi Fragmantasyon=MF)</i>
14:40 - 15:00	<u>Mehmet KOÇAK</u> , H. AHMADOV	<i>Parametrization in Description of Prompt Fission Neutron Spectrum in Spontaneous Fission of Cf-252</i>
15:00 - 15:20	<u>Yücel CANÇELİK</u>	<i>Heavy Quarkonium Mass Spectra with a Novel Model</i>
15:20 – 15:40	<u>Hakan PEKDOĞAN</u> , İ.SARPÜN, A. AYDIN	<i>Nükleer Seviye Yoğunluk Parametresinin Reaksiyon Tesir Kesitlerine Etkisinin İncelenmesi</i>
15:40 - 16:00	<u>Serdar ÜNLÜ</u> , HASAN ALİ AYGÖR, NECLA ÇAKMAK, CEVAD SELAM	<i>Deforme <sup>74-80</sup>Kr İzotopları İçin İzospin Safsızlığı ve İzobar Analog Durumlar Üzerindeki Deformasyon Etkilerinin İncelenmesi</i>
16:00 - 16:10	<i>Break</i>	
<b>Chairman: Prof.Dr. Osman YILMAZ</b>		
16:10 - 16:40	<u>Takhmasib M. ALİEV</u> (Invited Talk)	<i>Magnetic Moments of Negative Parity Baryons in QCD</i>
16:40 - 17:00	<u>Melek YILMAZ ŞENGÜL</u>	<i>Electron-positron Pair Creation in Relativistic Ion-ion Collisions</i>
17:00 - 17:20	<u>Ayben KARASU UYSAL</u>	<i>Resonance Measurements with the ALICE Detector at the LHC</i>
17:20 - 17:40	<u>Salih Cem İNAN</u>	<i>Extra Dimensions Search in Photon-Induced Process at the CERN-LHC</i>
17:40 - 18:00	<u>Ahmet Alper BİLLUR</u>	<i>Tau Leptonun Anomal Momentlerinin Lineer Çarpıştırıcılarda İncelenmesi</i>
18:00 - 18:20	<u>Seyit Okan KARA</u>	<i>A Search for b(c) Quark pdf Uncertainties at TEV Scale ep Collider</i>
18:20 – 18:40	<u>Aydan ALTIKULAÇ</u> , HASAN GÜMÜŞ	<i>Natural Radioactivity in Soils of the Eastern Countries in Samsun, Turkey</i>
18:40 – 19:00	<u>Serhat URUK</u> , SERKAN AKKOYUN, TUNCAY BAYRAM	<i>On the Structure of Plutonium Isotopes</i>

## WORKSHOP PROGRAMME

### 2nd Day (28 October 2014)

**Chairman: Prof.Dr. Takhmasib M. ALIEV**

09:30 - 10:00	<u>Ali Ekber KULIEV</u> (Invited Talk)	<i>Fine Structure and Nature of Pygmy Dipol Resonance in Well Deformed Nuclei</i>
10:00 - 10:20	<u>Gökhan KOÇAK</u>	<i><sup>16</sup>O+<sup>16</sup>O Sisteminde Alfa Kümelene Yöntemi ile Füzyon ve S-Faktör Hesaplamaları</i>
10:20 - 10:40	<u>Serkan AKKOYUN</u> , TUNCA BAYRAM, SEYİT OKAN KARA	<i>Photonuclear Reaction performed on Gallium</i>
10:40 - 11:00	<i>Break</i>	
<b>Chairman: Prof.Dr. Ali Ekber KULIEV</b>		
11:00 - 11:30	<u>Ozan ARTUN</u> , Hüseyin AYTEKİN	<i>Calculation of Excitation Functions of Proton and Deuteron Induced Reactions on Natural Mo Isotopes</i>
11:30 - 11:50	<u>İlkin SENCAR</u> , B. CANBULA, H. BABACAN	<i>An Investigation of the Effects of the Level Density Models on the Fission Reactions Calculations for Some Actinides</i>
11:50 - 12:10	<u>Emre TABAR</u> , H. YAKUT, A.A. KULIEV and E. GULIYEV	<i>Investigation of the Magnetic Dipole Strength in Odd-mass Deformed Nuclei: <sup>163</sup>Dy and <sup>167</sup>Er</i>
12:10 - 13:30	<i>Launch</i>	
13:30 - 14:40	<i>POSTER SESSION</i>	
<b>Chairman: Doç.Dr. Erdal DİKMEN</b>		
14:40 - 15:00	<u>Tahsin BABACAN</u> , Sadiye ÇAKMAK, Jameel-Un NABI, İsmail MARAS	<i>Spin-isospin Transitions in Chromium Isotopes within the Quasiparticle Random Phase Approximation</i>
15:00 - 15:20	<u>Asiye GÜROL</u> , İsmail Hakkı SARPUN	<i>α Bombardmanı ile <sup>68</sup>Ga, <sup>67</sup>Ga, <sup>68</sup>Ge ve <sup>65</sup>Zn Üretiminin Teorik Çalışması</i>
15:20 - 15:40	<u>Huseynqulu QULIYEV</u> , E. TABAR, H. YAKUT, M. GÜNER, A.A. KULIEV, E. GULIYEV	<i><sup>190,191,192</sup>Os İzotoplarının Manyetik Dipol Özelliklerinin Araştırılması</i>
15:40 - 16:00	<u>Bora CANBULA</u> , R. BULUR, D. CANBULA, H. BABACAN	<i>Extracted Collective Enhancement Factors of the Nuclear Level Densit</i>
16:00 - 16:20	<u>Aykut ELMAS</u> , H. AHMADOV, B. GÖNÜL	<i>Test of the Landau's Level Density Formula in the Region of Discrete and S-wave Neutron Resonance Energies</i>
16:20 - 16:40	<i>Break</i>	
<b>Chairman: Dr. Lorenzo FORTUNATO</b>		
16:40 - 17:00	<u>Çiğdem YAŞAR</u> , A. KARASU UYSAL	<i>The Analysis of Particle Yields in High Energy Collisions Using Thermal Model Approach</i>
17:00 - 17:20	<u>Esra YÜKSEL</u> , E. KHAN, K BOZKURT	<i>Low-energy Modes in Atomic Nuclei</i>
17:20 - 17:40	<u>Kaan MANİSA</u> , Mehmet ERDOĞAN, Hasan BİRCAN	<i>Determination of the Parameters of a Skyrme Type Effective Interaction Using the Vmc Method</i>
17:40 - 18:00	<u>Sadiye ÇAKMAK</u> , Jameel-Un NABI, Tahsin BABACAN	<i>The Investigation of Gamow-Teller Transition Properties in <sup>56-64</sup>Ni Isotopes Using QRPA Methods</i>
18:00 - 18:20	<u>Mehmet ERDOĞAN</u>	<i>Determination of the Parameters of a Skyrme Type Effective Interaction Using the VMC Method</i>
18:20 - 18:40	<u>Mehmet GÜNER</u> , E.GULIYEV, A.A.KULIEV	<i>Deformation Dependence of the Dipole Response in Even-even <sup>142-150</sup>Nd Isotopes</i>
18:40 - 19:00	<u>Mahmut BÖYÜKATA</u> , T. BAYRAM, İ. ULUER	<i>Investigation of Some Zirconium Nuclei within the Interaction Boson Model-1 and RMF Model</i>

## WORKSHOP PROGRAMME

<b>2nd Day (28 October 2014)</b>	
<b>POSTER SESSION</b>	
<u>Abdullah KAPLAN</u> , Veli ÇAPALI, Hasan ÖZDOĞAN	$\alpha$ , $d$ , $p$ and $t$ Emission Spectra for $^{208}\text{Pb}$ Target Nucleus at 96 MeV Neutron Incident Energy
<u>Alper SİNAN</u> , Tuncay BAYRAM, Serkan AKKOYUN	New Estimated Parameters of Viola-Seaborg Formula for Superheavy Nuclei
<u>Asiye GÜROL</u> , İsmail Hakkı SARPUN, Bekir ORUNÇAK	$^{57}\text{Co}$ Radyoizotopunun ( $\alpha$ , $\beta$ ) Reaksiyonu ile Üretilmesinin Teorik Hesaplaması
<u>Cafer Mert YEŞİLKANAT</u> , Y. KOBYA, H. TAŞKIN, U. ÇEVİK	Interpolated Modeling and Mapping of Gamma Dose Rates Measured in Artvin Province by Using the Neural Networks Method
<u>Cafer Mert YEŞİLKANAT</u> , Y. KOBYA, H. TAŞKIN, U. ÇEVİK	Interpolated Modelling and Mapping of Gross Alpha and Gross Beta for Natural Spring Water in Artvin Province by Using Geostatistical Prediction and Simulation Methods
<u>Canan AKSOY</u> , E. TIRAŞOĞLU, H. AKSOY, M. DOĞAN, A. APAYDIN	Trace Elements Analysis in White Cabbages in Gümüşhane, Turkey
<u>F. BİLGE YILDIZ</u>	Küresel Enerji Politikalarında Nükleer Enerjinin Yeri ve Türkiye Değerlendirmesi
<u>Ercan YILDIZ</u> , A. AYDIN, İ.H. SARPÜN	Nükleer Astrofizik Reaksiyonlarında S-Faktörünün Etkisi
<u>Fatih KARA</u>	Evrenin İlk Günleri
<u>Filiz ERTUĞRAL</u> , A.A. KULİEV, E. GULİYEV, N. DEMİRCİ	The Investigation of Electric Dipole Giant Resonance on the Even Mass 176,178,180Hf Isotopes
<u>Hakan YAKUT</u> , E. TABAR, A.A. KULİEV, E. GULİYEV	Theoretical Description of the Magnetic Dipole Strengths in the Odd-mass Deformed Nuclei
<u>Güney GÜRSOY</u> , İ.Y İĞİTOĞLU, E. ESER, S. YILDIRIM, S. KILIÇARSLAN, B. MAVI, F. ONER, İ.AKKURT	Natural Radioactivity Measurements in Marble and Traverten Mines in the Region of Tokat –Sivas
<u>Mehmet AKÇA</u> , G. BAŞBUĞ, H. R. YAZAR	Some Electromagnetic Transition Properties of $N \sim Z \sim 40$ Isotopes
<u>Metin USTA</u> , M. Ç. TUFAN	Protonlar için Çeşitli Organ Dokularının Durdurma Gücü ve Doz Hesaplamaları
<u>Necla ÇAKMAK</u>	Charge-Exchange Vibrational Modes on $0^+    2^-$ First Forbidden $\beta$ Decay Transitions
<u>Recep AKKAYA</u> , E. TABAR, H. YAKUT, A.A. KULİEV, F. ERTUĞRAL	Magnetic Dipole Excitations in the Actinide Nuclei
<u>Rukiye YEĞİN</u> , Yusuf SERT, Hatice DOĞAN	Phenomenological and Microscopic Analysis of Elastic Scattering Reactions: $^9\text{Be} + ^{27}\text{Al}$
<u>Salim ORAK</u> , Betül TAŞDELEN, Erol KAM	$^{60}\text{Co}$ 'ın Suda Çözünen PAA-Cu $^{2+}$ -BSA Komplekslerine Etkisi
<u>Seçil NİKSARLIOĞLU</u> , Fatih KÜLAHCI	Determining of $^{238}\text{U}$ Amount with Spatial Analysis Methods
<u>Serkan OĞUZ</u> , Necla ÇAKMAK	The Investigation of the Mean Field Parameters for Double Magic Nuclei
<u>Sevilay KAYHAN</u> , Necla ÇAKMAK	The Half-lives of the $0^+    0^-$ Beta Decays of Ge Isotopes
<u>Sibel AKÇA</u> , A. Yu. KONOBEYEV, U. FISCHER	Evaluation of $p$ , $d$ , $t$ , $^3\text{He}$ and $^4\text{He}$ production Cross-sections for Lead Irradiated with Protons at Energies up to 3 GeV
<u>Sultan ŞAHİN BAL</u> , Mahmut DOĞRU	Sivrice (Elazığ) Fay Zonunda Radon
<u>Tuncay BAYRAM</u> , Serkan AKKOYUN	Ground State Properties of Superheavy Rf Isotopes in the RMF Model
<u>Veli ÇAPALI</u> , Hasan ÖZDOĞAN, Abdullah KAPLAN	Neutron Emission Spectra of $^{83}\text{Bi}$ Target Nucleus for $(n, xn)$ Reaction at 7.75, 14.1, 14.2 and 20 MeV Neutron Incident Energies
<u>Yasemin KÜÇÜK</u>	Role of the Surface Potential in Explaining the $^{11}\text{Li} + ^{28}\text{Si}$ system
<u>Yaşar KOBYA</u> , C. M. YEŞİLKANAT, B. ÇAKIR	Determination and Geostatistical Modelling of Gross Alpha, Gross Beta Activity Values in Natural Spring Water in Trabzon, Rize and Artvin Provinces
<u>Zeynep YÜKSEL</u> , M. Çağatay TUFAN	Elektronlar için RHF Yoğunlukları Kullanarak Durdurma Gücü ve Menzil Hesaplamaları

## WORKSHOP PROGRAMME

**3rd Day (29 October 2014)**

10:00 - 16:00

*Excursion*