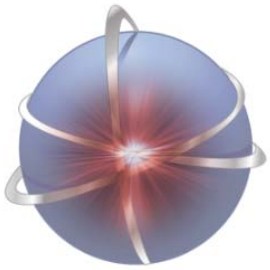
TESNAT 2017

3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology

10-12 May 2017 Çukurova University, Adana, Turkey

3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology



Abstract Book

Editors

Eyyup TEL, Abdullah AYDIN, İsmail Hakkı SARPÜN

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Dear Colleagues,

Welcome to the 3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2017). This conference is the third step of the TESNAT Conference series. TESNAT 2015 was held in Osmaniye Korkut Ata University, Osmaniye and TESNAT 2016 was held in Mustafa Kemal University, Hatay. The world of nuclear physics is an exciting area in which to work, and we'll continue to meet and bring inspired people together in conference like this, to ensure TESNAT remains at the cutting edge.

We intend in this conference to discuss and compare all applicable methods as are being applied at present in nuclear physics. The problems faced in these fields at present are focused in the development of new methods and in the improving of existing techniques to achieve an understanding of existing experimental data and in predicting with high reliability new properties and processes. We propose this conference as a mean to bring together all these related communities with the goal of creating an enriching dialog across the disciplines. The conference will give an overview on the theoretical and experimental challenges in nuclear physics and applications.

We'd like to thank each of you for attending our conference and bringing your expertise to our gathering. You are truly our greatest asset today and tomorrow, and we could not accomplish what we do without your support and leadership.

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RM002

Calculations of natural radioactivity levels in soil samples from Çukurova University campus, Turkey

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Natural radioactivity measurement, radiation monitoring of the region, dose assessment and interpretation of radiological related parameters are important with regard to the public consciousness and environmental safety. In this study, we investigated 10 soil samples collected from soil regions of nearest to Çukurova University campus measured through HPGe gamma ray spectrometry. The average values of ^{226}Ra, ^{232}Th, ^{40}K activity concentration that soil samples contain were found to be 21.57±1.47 Bq/kg, 30.55±3.09 Bq/kg and 274.18±8.08 Bq/kg, respectively. When the investigated concentration of radionuclides in the soil samples of University of Çukurova, we found that these values are nominal and do not produce any harmful health effects to the general public.