



ÇANKAYA UNIVERSITY  
FACULTY OF ARTS AND SCIENCES  
DEPARTMENT OF MATHEMATICS

## SEMINAR

**SPEAKER** : Arran Fernandez

Department of Applied Mathematics and Theoretical Physics (DAMTP),  
Cambridge University, UK

**DATE** : 06 October , 2017

**TIME** : 15:20

**PLACE** : Çankaya University (Central Campus), R-213

**ABSTRACT** : Fractional calculus is the study of differentiation and integration to non-integer orders, and its formulae, generalisations, and applications are limited only by the imagination. Analytic number theory is a difficult branch of mathematics which uses techniques from analysis to explore deep properties of the integers and primes. After a short introduction to both of these topics, we shall consider how they may be brought together to potentially enrich both fields.

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**SPEAKER** : Assist. Prof. Dr. Dumitru Baleanu,

Department of Mathematics, Faculty of Arts and Sciences, Cankaya University,  
Ankara, Turkey

Institute of Space Sciences, Magurele-Bucharest, Romania

**DATE** : 06 October , 2017

**TIME** : 16:10

**PLACE** : Çankaya University (Central Campus), R-213

**ABSTRACT** : Fractional order differential equations have assumed an important role in modelling the anomalous dynamics of numerous processes related to complex systems in the most diverse areas of Science and Engineering.

In my talk I will present some new trends in the field of fractional calculus within the Caputo derivative.

All interested are cordially invited.

**ADDRESS** : Eskişehir Yolu 29.km, 06810, Etimesgut/ANKARA