

University of Florida • Mathematics Department Eleventh Ramanujan* Colloquium

by
Professor Peter D.T.A. Elliott**

University of Colorado, Boulder

on
Encounters with Ramanujan

Date and Time: 4:05 - 4:55pm, Monday, March 20, 2017

Room: 109 Little Hall

Refreshments: Before Colloquium in Little Hall Atrium



OPENING REMARKS

by
Professor George Andrews
The Pennsylvania State University

Abstract: Ramanujan and his mathematics, viewed through the speaker's experiences.

Professor Elliott will also give two additional seminar talks:

- (i) Tuesday, March 21, 12:50 – 1:40pm in The Little Hall Atrium (3rd floor):

Asymptotic estimates for mean-values of multiplicative functions.

A short history of key theorems and their methodology will be given, leading to more recent results and an open ended problem that appears disarmingly simple.

- (ii) Tuesday, March 21, 3:00 - 3:50pm in Little Hall Room 368:

Groups of rationals, then and now,

An overview of the the application of Fourier analysis applied to the study of multiplicative groups of rationals.

* ABOUT RAMANUJAN: Srinivasa Ramanujan (1887-1920), a self-taught genius from South India, dazzled mathematicians at Cambridge University by communicating bewildering formulae in a series of letters. G. H. Hardy invited Ramanujan to work with him at Cambridge, convinced that Ramanujan was a "Newton of the East"! Ramanujan's work has had a profound and wide impact within and outside mathematics. He is considered one of the greatest mathematicians in history.

** ABOUT THE SPEAKER: Peter D. T. A. Elliott earned his Ph.D. in 1969, from the University of Cambridge, under the supervision of Harold Davenport. He is one of the world's leading experts in Probabilistic Number Theory, a subject whose origin lies in the work of Hardy-Ramanujan. Professor Elliott has written the definitive book on the subject (two volumes, Springer 1980). He is also the author of two other outstanding books - *Arithmetic functions and integer products*(Springer (1985), and *Duality in Analytic Number Theory* (Cambridge 1988). He has been on the faculty of the University of Colorado, Boulder since 1971. He is famous for his conjecture with Heini Halberstam concerning the distribution of prime numbers in arithmetic progression.

ABOUT THE SPONSOR: Evan Pugh Professor George Andrews of The Pennsylvania State University is the world's premier authority in the theory of partitions and work of the Indian mathematical genius Srinivasa Ramanujan combined. He is a Member of the National Academy of Sciences. He has close ties with the UF Mathematics Department which has one of the strongest programs on mathematics related to Ramanujan's work. He was a recipient of an Honorary Doctorate from UF in December 2002. Since 2005, he is a Distinguished Visiting Professor each year in the Spring term in the Mathematics Department. During 2008-2009 he was President of the American Mathematical Society.