Pure Mathematics Seminar

What is a generating function?

Dr. Jacob White
School of Mathematical and Statistical Sciences
University of Texas - Rio Grande Valley

Traditionally, a generating function is a formal power series: an infinite sum whose terms consist of monomials with rational coefficients. However, this definition appears less useful when studying counting problems in graph theory, or the theory of partially ordered sets. Motivated by past work of Polya, Joyal, and recent work by Aguiar and Mahajan, we present a new definition of generating function. We show how this new approach allows us to gain deeper insight into various combinatorial identities.

Date: **Friday, October 9, 2015**
Time: **11:00 am**
Place: **Edinburg:** MAGC 1.302, **Brownsville:** UBLB 3.102

The talk will delivered live at the Brownsville campus and will be streamed to the Edinburg campus

Coffee and cookies will be served.

For further information or for special accommodations, please contact
Dr. Sergey Grigorian via email at [sergey.grigorian@utrgv.edu], or
Dr. Alexey Garber at [alexey.garber@utrgv.edu], or
visit the webpage [http://blue.utb.edu/dg2012/puremathseminar.html].