

# Pure Mathematics Seminar

A constructive solution to an unsolved problem in the theory of modular forms

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Modular forms of small positive weight are important building blocks for combinatorial generating functions and other applications. In this talk, I will discuss a solution to the unsolved problem of finding dimension formula and bases for the vector space of weight one modular forms on the principal congruence subgroup of large prime level. The method is constructive and relies on a number of fundamental principles from the theory of modular forms and the theory of elliptic functions.

Date: **Friday, November 18, 2016**

Time: **2:15 pm**

Place: **Edinburg:** MAGC 1.302, **Brownsville:** UBLB 2.206

**The talk will delivered live at the *Edinburg* campus and will be streamed to the *Brownsville* 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://www.utrgv.edu/math/news-events/seminars/puremath/index.htm>