Brownsville Seminar

UTRGV
School of Mathematical & Statistical Sciences

Congruences and Cranks for partitions bounded by part size and number

Speaker: **Brandt Kronholm**

Abstract:

We establish infinite families of cranks witnessing infinite families of congruences for the function p(n,m) which enumerates partitions of n into at most m parts. We show that Dyson's rank witnesses infinitely many of these congruences.
We discuss the existence of supercranks witnessing each and every modulo d congruence.
If time permits, we will discuss similar infinite families of congruences for p(n,m,N), the function enumerating partitions into at most m parts, no part larger than N. For small values of m, we will establish cranks.

!Coffee and Cookies will be Provided!

Date: September 29th, 2023
Time: 1:30 - 2:30 PM CT
In Person: BLHSB 1.316
Zoom Link: https://utrgv.zoom.us/j/83585846705

For further information please contact Dr. Alexey Glazyrin via email at alexey.glazyrin@utrgv.edu.
More information about the seminar talks is available at the website https://www.utrgv.edu/math/news-events/seminars/brownsville/index.htm.