



Mathematical Sciences

The University of Texas at El Paso



Spring 2017 Colloquium Series

Monday, February 27, 2017 at 3:00pm in Bell Hall 143

(Note the unusual day)

Dr. Timothy Huber

School of Mathematical and Statistical Sciences
University of Texas - Rio Grande Valley

Series for $1/\pi$ of signature 20

Properties of theta functions and Eisenstein series dating to Jacobi and Ramanujan are used to deduce differential equations associated with McKay Thompson series of level 20. These equations induce expansions for modular forms of level 20 in terms of modular functions. The theory of singular values will be applied to derive new expansions for $1/\pi$ of signature 20 similar to those formulated by Ramanujan for small primes.



For further information, please contact Dr. Emil Schwab or Dr. Xiaogang Su at eschwab@utep.edu or xsu@utep.edu

