

ANOTHER SUM EXPRESSION FOR THE APPELL-LERCH SUM

YINGKUN LI

In his PhD thesis, Zwegers showed that the Appell-Lerch sum can be completed by a non-holomorphic function to become modular. In this talk, we will express the Appell-Lerch sum as a sum of an L^∞ function on \mathbb{R} , and give a different proof of the modularity result of Zwegers using Poisson summation.