

1154-11-1600

Jiakun Pan* (jpan@math.tamu.edu), 227 Blocker Building, Ireland St., College Station, TX 77843-3368, and **Matthew P. Young**. *Quantum Unique Equidistribution conjecture for Eisenstein series in the level aspect.*

We study Eisenstein series on growing levels with general central characters, and find an asymptotic formula for their mass distribution, which we call Quantum Unique Ergodicity (**QUE**). In addition, as an analogy of the t -aspect small scale QUE for Eisenstein series by Young and Humphries separately, we consider above formula under weaker assumptions for the test functions. As a result, complications occur, to our surprise...

As a variation of the QUE conjecture raised by Rudnick and Sarnak, our research extends previous work of Kowalski, Michel, and VanderKam, Holowinsky and Soundararajan, Nelson, Pitale, and Saha, and Koyama, among many other authors. Our estimation for the error terms applies the subconvexity bound of twisted L -functions by Blomer and Harcos. (Received September 16, 2019)