

1154-47-2421 **Chian Yeong Chuah*** (chian_chuah@baylor.edu). *A characterization for l_2 -radial completely positive multipliers on free groups.* Preliminary report.

In this talk, we will give a brief account about the relationship between radial positive-definite functions on free groups and the moments of probability measures on the interval $[-1, 1]$. The case for the commutative setting is proven by Bochner. Meanwhile, Haagerup and Knudby proved the case for l_1 radial positive definite function. We explore the case for l_2 radial positive definite functions (completely positive Fourier multipliers) on free groups. (Received September 17, 2019)