1114-37-315   **Rui Han*** (`rhan2@uci.edu`). *measure of the spectrum of the extended Harper's model.*

In this talk, we will discuss the measure of the spectrum of the extended Harper's model(EHM). The measure of the spectrum of the Harper's model, which in mathematics is better known as the almost Mathieu operator(AMO), is know to be —4-2a— where a is the coupling constant. The way of calculating the measure mainly relies on the analysis of the AMO with rational frequency and the continuity argument. Here we focus on how to calculate the measure of the spectrum of the EHM with rational frequencies, therefore implying the result for irrational frequencies. (Received August 31, 2015)