

SPEAKER: Wee Teck Gan (UCSD)

TITLE: Formal degrees and local theta correspondence

ABSTRACT: In the first part of the talk (for graduate students), I will explain the framework of theta correspondence and some of its applications. In the second part of the talk (colloquium style), I will recall the formal degree conjecture of Hiraga-Ichino-Ikeda and discuss its interactions with Langlands functoriality and theta correspondence, with the goal of formulating the main result. Finally (more technical), I will discuss the proof of the main result, which is a local Rallis inner product formula. This is joint work with Atsushi Ichino.