1147-58-412 **Zhiqin Lu*** (`zlu@uci.edu`). *Analysis of the Laplacian on the moduli space of polarized Calabi-Yau manifolds.*

In this talk, we first discuss some recently results on the extension of the Laplacian on non-complete manifolds. We then use our results into the analysis on the geometry of Calabi-Yau moduli spaces. This is joint with Hang Xu. (Received January 23, 2019)