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## **Geometric Langlands for Hypergeometric Sheaves**

by

## Mr. Lingfei YI Caltech

## Abstract:

Hypergeometric sheaves are rigid local systems on the punctured projective line with remarkable properties. In my joint work with Masoud Kamgarpour, we construct the Hecke eigensheaves whose eigenvalues are the irreducible hypergeometric sheaves, thus confirm the geometric Langlands conjecture for hypergeometrics. In this talk, I will introduce the key tool we use called rigid automorphic data, due to Z. Yun. The definition of automorphic data for tame hypergeometrics involves the mirabolic subgroup, while in the wild case, Moy-Prasad subgroups of principal parahorics intervene.

Date : November 11, 2020 (Wednesday) Time : 9:00 am – 10:00am (Hong Kong SAR) Zoom link : https://cuhk.zoom.us/j/97838822137?pwd=ZTVvSC9abmNjR3RCcS9FTzJNTVhXdz09 Meeting ID: 978 3882 2137 Passcode : sesame

All are Welcome