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Representation and Number Theory Seminar

(Affine Grassmannians for Ramified Triality Groups)

by

(Dr. Zhihao Zhao)
(Michigan State University)

Abstract:
In this talk, I will give an explicit description of affine Grassmannians for triality groups as functors classifying suitable lattices in a fixed space. These triality groups are of type $^3 D_4$ and can be constructed by certain twisted composition algebras. Further, I will briefly introduce global affine Grassmannians for triality groups. I combine this description with the Pappas-Zhu construction, to obtain corresponding local models; the singularities of these local models are supposed to model the singularities of certain orthogonal Shimura varieties.

Date : December 21, (Tuesday)
Time : 9:00am – 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