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Representation and Number Theory Seminar

(On the p -adic theory of local models)

by

(Dr. João Lourenço)
(Max-Planck-Institut für Mathematik)

Abstract:

This talk is based on joint work with Anschütz-Gleason-Richarz. After motivating with p -adic shtukas, I'll define the p -adic local models in the sense of Scholze-Weinstein. Then we move to the study of their étale cohomology and of the associated nearby cycles functor. In particular, I'll explain why it is central and how this helps in determining the special fiber of the local model. Time permitting, I'll mention work in progress with Anschütz-Wu-Yu on Wakimoto filtrations and the t -exactness of nearby cycles at the Iwahori level.

Date : March 15, (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