

ALGEBRA SEMINAR

Minimal positive depth representations for p-adic groups of rank one

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Abstract: Gross, Reeder, and Yu have studied a class of supercuspidal representations of p-adic groups which they call epipelagic — those slightly deeper than the surface (depth zero). In this talk, we will systematically study the epipelagic representations of minimal positive depth for p-adic groups of semisimple rank one. These are the groups for which the Bruhat-Tits building is a tree. For such groups, we provide a simplified proof that all minimal positive depth supercuspidals arise via compact induction, and we will explicitly describe the orbits that provide such induction data.

Date: Monday, April 3, 2023 Time: 15:30 Place: SA141 - Mathematics Seminar Room