



THE WEIZMANN INSTITUTE OF SCIENCE
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE

Algebraic Geometry and Representation Theory Seminar

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<https://weizmann.zoom.us/j/98304397425>

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Representations of a reductive p -adic group G over a field C .

Abstract:

When C is algebraically closed of characteristic different from p , for many groups G , a list of pairs (J, λ) , where λ is a smooth C -representation of a compact modulo centre subgroup J of G , has been produced such that any irreducible cuspidal C -representation of G has the form $\text{ind}_J^G \lambda$, for a pair (J, λ) unique up to conjugation. With Guy Henniart, we produced similar lists when C is no longer assumed algebraically closed. Our other main result concerns supercuspidality. The notion of supercuspidality makes sense for the irreducible cuspidal C -representations of G , and also for the representations λ . In most cases we proved that $\text{ind}_J^G \lambda$ is supercuspidal if and only if λ is supercuspidal.