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The wavefront set for representations of p-adic groups

Abstract:

The wavefront set is a powerful invariant which one can attach to representations of reductive groups in both global and local settings with a non-trivial interplay between the two. This talk will start by introducing a natural refinement of the wavefront set in the p-adic setting, and new conjectures relating the local Langlands correspondence to the (refined) wavefront set. I will then announce results obtained with Dan Ciubotaru and Lucas Mason-Brown where we compute the wavefront set and its refinement for all Iwahori-Spherical representations with real infinitesimal character. If time permits I will explore some implications for defining unipotent Arthur packets in the p-adic setting. Zoom: https://weizmann.zoom.us/j/98304397425