

Constructing Admissible Banach Space Representations

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Admissible Banach space representations play a fundamental role in the p -adic Langlands program. We study methods of constructing such representations. Let G be a reductive p -adic group and H a compact open subgroup of G . Given an admissible Banach space representation of H , we would like to define an induction producing an admissible Banach space representation of G . A natural generalization of compact induction does not produce admissible representations. This talk will present a method for obtaining admissible Banach space representations. Our approach is based on the Schneider-Teitelbaum duality between Banach space representations and Iwasawa modules.

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