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*A family of Satake isomorphisms*

Let  $F$  be a local field with ring of integers  $O$ . Let  $G$  denote the general linear group and  $T$  the subgroup of diagonal matrices. In a remarkable 1973, Roger Howe defined a Satake-type isomorphism for every character of  $T(O)$ . If this character is trivial, we recover the usual Satake Isomorphism.

In this talk I will give an overview of Howe's construction and its applications to geometric representation theory.