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Distinguished representations of metaplectic groups

An automorphic representation on a metaplectic cover of GL is called "distinguished" if it has a unique Whittaker model. Distinguished representations can be viewed as generalizations of classical theta functions. Using the method of the converse theorem, Patterson and Piatetski–Shapiro constructed cuspidal distinguished representations on the three-fold covers of $\mathrm{GL}(3)$. In this talk, we will discuss recent progress toward generalizing the work of Patterson and Piatetski–Shapiro to the case of four-fold covers of $\mathrm{GL}(4)$.