

MONICA NEVINS, University of Ottawa, Ottawa, Ontario K1N 6N5
Branching rules for principal series representations of p -adic $SL(2)$

The principal series representations of p -adic $SL(2, k)$ are restricted to $SL(2, \mathcal{O})$, where \mathcal{O} denotes the integer ring in k . This subgroup represents one of the two conjugacy classes of maximal compact subgroups in $SL(2, k)$. The decomposition of these restricted representations is described in terms of Shalika's classification by orbits of irreducible representations of $SL(2, \mathcal{O})$.