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Patterns in branching rules for representations of $\mathrm{SL}(2, k)$, k a p-adic field

Let k be a p-adic field of residual characteristic different from 2, with integer ring $\mathcal{R}$. The restriction of an irreducible representation of $\mathrm{SL}(2, k)$ to its maximal compact subgroup $\mathrm{SL}(2, \mathcal{R})$ is multiplicity-free but far from irreducible. We compare the irreducibles arising from restrictions of principal series and supercuspidal representations of $\mathrm{SL}(2, k)$ (due to previous work of the author) with known classifications of the representations of $\mathrm{SL}(2, \mathcal{R})$ (due to Shalika) to generate a picture of the information gleaned through such branching rules.