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**Monica Nevins\*** ([mnevins@uottawa.ca](mailto:mnevins@uottawa.ca)), Department of Mathematics and Statistics, 585 King Edward Ave., Ottawa, ON K1N 6N5, Canada. *Some irreducible representations of  $SL(2, O)$ , where  $O$  is the integer ring of a  $p$ -adic field.* Preliminary report.

The restriction of an irreducible representation of  $SL(2, k)$  to the maximal compact subgroup  $SL(2, O)$  is far from irreducible, but its decomposition into irreducibles is multiplicity-free. We report on recent progress on the problem of how families of irreducibles of  $SL(2, O)$  arise in this way. (Received September 21, 2009)