

1157-22-163

**Dubravka Ban\*** (dban@siu.edu), Department of Mathematics, Southern Illinois University, Carbondale, IL 62901, and **Joseph Hundley**. *Intertwining operators on  $p$ -adic principal series*. Preliminary report.

Let  $G$  be a split  $p$ -adic group and  $K$  a maximal compact subgroup of  $G$ . We study continuous principal series representations on  $p$ -adic Banach spaces. We prove that the intertwining algebra of any principal series of  $G$  is one-dimensional. Surprisingly, the intertwining algebra of any principal series of  $K$  is also one-dimensional. For the proof, we use the duality theory of Schneider and Teitelbaum, and work with the corresponding Iwasawa modules. (Received January 26, 2020)