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*Principal Series Representations of  $n$ -Fold Metaplectic Covers of  $SL_2$  over a  $p$ -adic Field.*

Let  $F$  be a  $p$ -adic field and  $\tilde{G}$  be the  $n$ -fold metaplectic cover of  $G = SL_2(F)$  and let  $\tilde{K}$  be a maximal compact of  $\tilde{G}$ . Our goal is to study reducibility and the  $\tilde{K}$ -type components of various principal series of  $\tilde{G}$ .