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On the Representations of the n -fold Metaplectic Groups

n -fold metaplectic groups are the central extensions of a simply-connected Chevalley group by the group of n -th roots of unity. In this talk, we consider the n -fold metaplectic group of SL_2 over a p -adic field and compute the K-types of the principal series representations of these covering groups. Among these representations are the reducible unramified principal series representations for which we investigate the distribution of the K-types into its irreducible constituents.