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Whittaker Functions on Orthogonal Groups of Odd Degree

We give explicit formulas for Whittaker functions for the class one principal series representations of the orthogonal groups $SO_{2n+1}(\mathbb{R})$ of odd degree. Our formulas are similar to the recursive formulas for Whittaker functions on $SL_n(\mathbb{R})$ given by Stade and the author.

Keywords: Whittaker functions, principal series representations.

MSC: 22E30, 33C80