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Seung Won Lee* (sw1006@math.ucsd.edu), Department of Mathematics, UC San Diego, 9500 Gilman Drive #0112, La Jolla, CA 92093. *Representations with Small K Types for Simply Connected, Simply Laced, Split Real Groups.*

Let G be the connected, simply connected split real form of simply laced, simple Lie type of rank ≥ 2 with a maximal compact subgroup K . We discuss a complete classification of "small" K types derived via Clifford algebras, and results on principal series admitting a small K type completely analogous to Kostant's results on spherical principal series. (Received September 24, 2012)