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*W-graphs and Primitive Ideals*

Let  $G$  be a real form of a linear, reductive, complex algebraic group defined over  $\mathbb{R}$ . The  $W$ -graph of  $G$  is introduced first as a purely combinatorial object associated to the Kazhdan–Lusztig–Vogan polynomials for  $G$ . This graph is then reinterpreted from a purely representation theoretical point of view. Combining these two points of view we show how the set  $\widehat{G}_{adm,\lambda}$  of irreducible admissible representations of regular integral infinitesimal character  $\lambda$  can be explicitly partitioned into equivalence classes sharing the same infinitesimal character.