

Roots of the Tits quadratic form of a 2-equipped poset and its correspondence with corepresentations of one-parametric type

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Abstract

The quadratic Tits form associated to a 2-equipped poset (with respect to corepresentations) is presented. The list of the one parametric 2-equipped posets and their corepresentations, are already known. Then, It is shown that the dimension of a one-parametric corepresentation corresponds to a imaginary or admissible root of the Tits quadratic form. There are also some dimension vectors which do not correspond to the mentioned roots, these are called special.