On rigidity of abstract root systems of Coxeter systems

Matthew Dyer

(Submitted on 10 Nov 2010)

We introduce and study a combinatorially defined notion of root basis of a (real) root system of a possibly infinite Coxeter group. Known results on conjugacy up to sign of root bases of certain irreducible finite rank real root systems are extended to abstract root bases, to a larger class of real root systems, and, with a short list of (genuine) exceptions, to infinite rank irreducible Coxeter systems.

Comments:34 pagesSubjects:Group Theory (math.GR); Representation Theory (math.RT)MSC classes:Primary 20F55, Secondary 17B22Cite as:arXiv:1011.2270v1 [math.GR]

Submission history

From: Matthew Dyer [view email] [v1] Wed, 10 Nov 2010 04:00:39 GMT (40kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

(Help | Advanced search)

Go!

All papers

Download:

- PDF
- PostScript
- Other formats

Current browse context: math.GR < prev | next > new | recent | 1011

Change to browse by:

math

math.RT

References & Citations

• NASA ADS

Bookmark(what is this?)