Mathematics > Representation Theory

A System of Third-Order Differential Operators Conformally Invariant under \$\mathfrak{so}(8,\mathbb{C})\$

Toshihisa Kubo

(Submitted on 3 Nov 2010 (v1), last revised 4 Nov 2010 (this version, v2))

In earlier work, Barchini, Kable, and Zierau constructed a number of conformally invariant systems of differential operators associated to Heisenberg parabolic subalgebras in simple Lie algebras. The construction was systematic, but the existence of such a system was left open in several anomalous cases. Here, a conformally invariant system is shown to exist in the most interesting of these remaining cases. The construction may also be interpreted as giving an explicit homomorphism between generalized Verma modules for the Lie algebra of type \$D_4\$.

Comments:11 pagesSubjects:Representation Theory (math.RT)MSC classes:22E46, 22E47, 17B10Cite as:arXiv:1011.0963v2 [math.RT]

Submission history

From: Toshihisa Kubo [view email] [v1] Wed, 3 Nov 2010 18:37:18 GMT (12kb) [v2] Thu, 4 Nov 2010 14:09:15 GMT (12kb)

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.RT < prev | next > new | recent | 1011

Change to browse by:

math

References & Citations

• NASA ADS

Bookmark(what is this?)