
11 Eigenfunctions of the center of the enveloping algebra

In Fourier terms modules, defined in §3.3, the center of the enveloping algebra of \mathfrak{g} acts by a character of $ZU(\mathfrak{g})$.

This character can be parametrized by a character of NA , which leads to a parametrization by elements of $\mathbf{Z} \times \mathbf{C}$.

The Weyl group of \mathfrak{sl}_3 acts on $\mathbf{C} \times \mathbf{C}$. The parametrization is invariant under the Weyl group.

11a. Routine for products in the enveloping algebra

11b. Substitution rule for the N-trivial case

11c. Example

11d. Parametrization

11e. Eigenfunction equations, N-trivial eigenfunction module

11f. Eigenfunction equations, abelian eigenfunction module

11g. Eigenfunction equations, non-abelian eigenfunction module

11h. Routines for eigenfunction equations