

and we use designations $S(z^\tau) = z^\tau - z^{-\tau}$, $C(z^\tau) = z^\tau + z^{-\tau}$; $\tau_i = \lambda_i + n - 1/2$ for $i = 1, 2, \dots, n-2$; $\tau_{n-1} = \lambda_{n-1}$; $\tau_n = \lambda_n + n - 1/2$. The determinant $D_2(\lambda)$ can be obtained from $D_1(\lambda)$ by substitution $S(z^\tau)$ on $C(z^\tau)$ and vice versa.

We compare the discovered formulas for characters and dimensions of the highest weight representations of semiclassical Lie groups with well-known Hermann Weyl analogous formulas.

[1]. Shtepin V.V. *The intermediate Lie algebra $\mathfrak{d}_{n-1/2}$, the weight scheme and finite-dimensional representations*. Izvestiya: Mathematics **68**:2, 2004, p. 375–404.

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