

Descillator algebra on Heisenberg algebra of [1] and [2] [an, an] = m 8 m, n [ao, an] = 0 ao is a central element B = C[X1, X2...] Bosonic Fock space $a_n = \varepsilon_n \frac{\partial}{\partial x_n} \qquad n > 0$ Qu creation spanators Antilonear auti-involution ω t $a_n = a_n$ Pet Form is contravariant if $\langle a(v)|w \rangle = \langle v|\omega \langle a \rangle w \rangle$ Def. Degree of xj. ... x jk is j. + 2j2 + 3j3 + ... + kje

Bj - subspace of B spanned by monomials of degree, alim B; = P(j) - number of partitions of j B = DB: principal greatation P(0) = I don, $B = \sum_{j \geq 0} (d_1 m B_j) q_j = \varphi(q)$ $y(q) = \Pi (1-q)$ Eveler's function $y(q) = \frac{1}{2}$ $y(q) = \frac{1$ Change decomposition my = m1 m-11 m-21. +(m) - spanned by monomials that differ $\varphi = i_1 \wedge i_2 \wedge \dots \wedge i_n = i_1 \wedge \dots \wedge i_n = i_2 \wedge \dots \wedge i_n = i_1 \wedge \dots \wedge i_n = i_2 \wedge \dots \wedge i_n = i_2 \wedge \dots \wedge i_n = i_2 \wedge \dots \wedge i_n = i_1 \wedge \dots \wedge i_n = i_2 \wedge \dots \wedge i_n = i_2 \wedge \dots \wedge i_n = i_1 \wedge \dots \wedge i_n = i_$ Every $y \circ f \circ f = |\lambda|^{\ell} | = \sum_{i=1}^{\ell} \lambda_{i}^{\ell} | = \sum_{i=1}^{\ell}$

 $\{ \psi_{i}, \psi_{j}^{*} \} = \{ \psi_{i}, \psi_{j} \} = \{ \psi_{i}^{*}, \psi_{j}^{*} \} = 0$ ψ. ψ. † generale Clifford algebra Cl ψ: 10> =0 j=0 V (.1.) Symmeting Colonean T(V)/J = 2 x8y - (x1y) 3 UCV CLV has unique tu (spin module)
with 10> 5.1. Le 10> =0 $V = Z C Y_i + Z C Y_i^* \qquad (Y_i | Y_i^*) = S_i$ $U = \sum_{i \leq 0} CY_i + \sum_{i > 0} CY_i^*$ [4,4,4] = 8e, 4i [4,4] = -8e; 4; $a_n = \sum_{j \in \mathcal{Z}} \psi_j \psi_{j+n}^{x} \qquad n \neq 0$ $a_0 = \sum_{j>0} \varphi_j \varphi_j^* - \sum_{j \leq 0} \varphi_j^* \varphi_j^*$ Tan, an 7 = m Sm, -u Exercise