

* character table

D_6	1(1)	2 ₀₀₁ (1)	2 ₁₀₀ (3)	2 ₁₂₀ (3)	3 ⁺ ₀₀₁ (2)	6 ⁺ ₀₀₁ (2)
A_1	1	1	1	1	1	1
A_2	1	1	-1	-1	1	1
B_1	1	-1	-1	1	1	-1
B_2	1	-1	1	-1	1	-1
E_1	2	-2	0	0	-1	1
E_2	2	2	0	0	-1	-1

* polar \leftrightarrow axial conversion

$$A_1 (A_1) \quad A_2 (A_2) \quad B_1 (B_1) \quad B_2 (B_2) \quad E_1 (E_1) \quad E_2 (E_2)$$

* symmetric product

	A_1	A_2	B_1	B_2	E_1	E_2
A_1	A_1	A_2	B_1	B_2	E_1	E_2
A_2		A_1	B_2	B_1	E_1	E_2
B_1			A_1	A_2	E_2	E_1
B_2				A_1	E_2	E_1
E_1					$A_1 + E_2$	$B_1 + B_2 + E_1$
E_2						$A_1 + E_2$

* anti-symmetric product

A_1	A_2	B_1	B_2	E_1	E_2
-	-	-	-	A_2	A_2