

* character table

T_d	1(1)	$2_{001}(3)$	$3^+_{111}(8)$	$m_{110}(6)$	$-4^+_{001}(6)$
A_1	1	1	1	1	1
A_2	1	1	1	-1	-1
E	2	2	-1	0	0
T_1	3	-1	0	-1	1
T_2	3	-1	0	1	-1

* polar \leftrightarrow axial conversion

$$A_1 (A_2) \quad A_2 (A_1) \quad E (E) \quad T_1 (T_2) \quad T_2 (T_1)$$

* symmetric product

	A_1	A_2	E	T_1	T_2
A_1	A_1	A_2	E	T_1	T_2
A_2		A_1	E	T_2	T_1
E			$A_1 + E$	$T_1 + T_2$	$T_1 + T_2$
T_1				$A_1 + E + T_2$	$A_2 + E + T_1 + T_2$
T_2					$A_1 + E + T_2$

* anti-symmetric product

A_1	A_2	E	T_1	T_2
-	-	A_2	T_1	T_1