

* character table

C_6	1(1)	$2_{001}(1)$	$3^+_{001}(2)$	$6^+_{001}(2)$
A	1	1	1	1
B	1	-1	1	-1
E_1	2	-2	-1	1
E_2	2	2	-1	-1

* polar \leftrightarrow axial conversion

$A \ (A) \quad B \ (B) \quad E_1 \ (E_1) \quad E_2 \ (E_2)$

* symmetric product

	A	B	E_1	E_2
A	A	B	E_1	E_2
B		A	E_2	E_1
E_1			$A + E_2$	$2B + E_1$
E_2				$A + E_2$

* anti-symmetric product

A	B	E_1	E_2
-	-	A	A