* character table

T	$1(1)$	$2_{001}(3)$	$3^{+}_{111}(8)$
A	1	1	1
E	2	2	-1
T	3	-1	0

* polar $\leftrightarrow$ axial conversion

$A\ (A)$ $E\ (E)$ $T\ (T)$

* symmetric product

	A	E	T
A	A	E	T
E		$A+E$	$2T$
T			$A+E+T$

* anti-symmetric product

A	E	T
$-$	A	T