

\* character table

$C_4(c)$	1(1)	$2_{001}(1)$	$4_{001}^+(1)$	$4_{001}^-(1)$
$A$	1	1	1	1
$B$	1	1	-1	-1
$E^{(a)}$	1	-1	$-i$	$i$
$E^{(b)}$	1	-1	$i$	$-i$

\* polar  $\leftrightarrow$  axial conversion $A$  ( $A$ )    $B$  ( $B$ )    $E^{(a)}$  ( $E^{(a)}$ )    $E^{(b)}$  ( $E^{(b)}$ )

\* symmetric product

	$A$	$B$	$E^{(a)}$	$E^{(b)}$
$A$	$A$	$B$	$E^{(a)}$	$E^{(b)}$
$B$		$A$	$E^{(b)}$	$E^{(a)}$
$E^{(a)}$			$B$	$A$
$E^{(b)}$				$B$

\* anti-symmetric product

	$A$	$B$	$E^{(a)}$	$E^{(b)}$
	-	-	-	-