

PG No. 9  $C_4$  4 [ tetragonal ]

\* character table

$C_4$	1(1)	$2_{001}(1)$	$4_{001}^+(2)$
$A$	1	1	1
$B$	1	1	-1
$E$	2	-2	0

\* polar  $\leftrightarrow$  axial conversion

$$A (A) \quad B (B) \quad E (E)$$

\* symmetric product

	$A$	$B$	$E$
$A$	$A$	$B$	$E$
$B$		$A$	$E$
$E$			$2A + B$

\* anti-symmetric product

$A$	$B$	$E$
-	-	$B$