

\* character table ( $\omega = e^{2\pi i/3}$ )

$C_3(c)$	1(1)	$3^+_{001}(1)$	$3^-_{001}(1)$
$A$	1	1	1
$E^{(a)}$	1	$\omega^*$	$\omega$
$E^{(b)}$	1	$\omega$	$\omega^*$

\* polar  $\leftrightarrow$  axial conversion

$$A (A) \quad E^{(a)} (E^{(a)}) \quad E^{(b)} (E^{(b)})$$

\* symmetric product

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

\* anti-symmetric product

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