

PG No. 5 C_{2h} $2/m$ (b-axis setting) [monoclinic]

* character table

C_{2h}	1(1)	$2_{010}(1)$	-1(1)	$m_{010}(1)$
A_g	1	1	1	1
B_g	1	-1	1	-1
A_u	1	1	-1	-1
B_u	1	-1	-1	1

* polar \leftrightarrow axial conversion

$$A_g (A_u) \quad B_g (B_u) \quad A_u (A_g) \quad B_u (B_g)$$

* symmetric product

	A_g	B_g	A_u	B_u
A_g	A_g	B_g	A_u	B_u
B_g		A_g	B_u	A_u
A_u			A_g	B_g
B_u				A_g

* anti-symmetric product

A_g	B_g	A_u	B_u
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