

PG No. 7 C_{2v} $mm2$ [orthorhombic]

* character table

C_{2v}	1(1)	2 ₀₀₁ (1)	m ₀₁₀ (1)	m ₁₀₀ (1)
A_1	1	1	1	1
A_2	1	1	-1	-1
B_1	1	-1	1	-1
B_2	1	-1	-1	1

* polar \leftrightarrow axial conversion

$$A_1 (A_2) \quad B_2 (B_1) \quad B_1 (B_2) \quad A_2 (A_1)$$

* symmetric product

	A_1	A_2	B_1	B_2
A_1	A_1	A_2	B_1	B_2
A_2		A_1	B_2	B_1
B_1			A_1	A_2
B_2				A_1

* anti-symmetric product

A_1	A_2	B_1	B_2
-	-	-	-