

* character table

D_2	1(1)	$2_{001}(1)$	$2_{010}(1)$	$2_{100}(1)$
A	1	1	1	1
B_1	1	1	-1	-1
B_2	1	-1	1	-1
B_3	1	-1	-1	1

* polar \leftrightarrow axial conversion A (A) B_3 (B_3) B_2 (B_2) B_1 (B_1)

* symmetric product

	A	B_1	B_2	B_3
A	A	B_1	B_2	B_3
B_1		A	B_3	B_2
B_2			A	B_1
B_3				A

* anti-symmetric product

	A	B_1	B_2	B_3
	-	-	-	-