

* character table

C_i	1(1)	-1(1)
A_g	1	1
A_u	1	-1

* polar \leftrightarrow axial conversion

$$A_g (A_u) \quad A_u (A_g)$$

* symmetric product

	A_g	A_u
A_g	A_g	A_u
A_u		A_g

* anti-symmetric product

A_g	A_u
-	-