

Commonly Used Correlation Tables

C_{2v}	C_2	$C_{s,\sigma}(xz)$	$C_{s,\sigma}(yz)$	C_{3v}	C_3	C_s
A_1	A	A'	A'	A_1	A	A'
A_2	A	A''	A''	A_2	A	A''
B_1	B	A'	A''	E	$\{E\}$	$A' + A''$
B_2	B	A''	A'			

D_{4h}	D_4	C_{4v}	C_{4h}	C_4	D_{2h}	D_{2h}	D_{2d}	D_{2d}	S_4	$D_2 C_2'$
A_{1g}	A_1	A_1	A_g	A	A_g	A_g	A_1	A_1	A	A
A_{2g}	A_2	A_2	A_g	A	B_{1g}	B_{1g}	A_2	A_2	A	B_1
B_{1g}	B_1	B_1	B_g	B	A_g	B_{1g}	B_1	B_2	B	A
B_{2g}	B_2	B_2	B_g	B	B_{1g}	A_g	B_2	B_1	B	B_1
E_g	E	E	$\{E_g\}$	$\{E\}$	$B_{2g} + B_{3g}$	$B_{2g} + B_{3g}$	E	E	$\{E\}$	$B_2 + B_3$
A_{1u}	A_1	A_2	A_u	A	A_u	A_u	B_1	B_1	B	A
A_{2u}	A_2	A_1	A_u	A	B_{1u}	B_{1u}	B_2	B_2	B	B_1
B_{1u}	B_1	B_2	B_u	B	A_u	B_{1u}	A_1	A_2	A	A
B_{2u}	B_2	B_1	B_u	B	B_{1u}	A_u	A_2	A_1	A	B_1
E_u	E	E	$\{E_u\}$	$\{E\}$	$B_{2u} + B_{3u}$	$B_{2u} + B_{3u}$	E	E	$\{E\}$	$B_2 + B_3$

T_d	T	C_{3v}	C_{2v}	D_{2d}	O_h	O	T_d	T_h	D_{4h}	D_{3d}
A_1	A	A_1	A_1	A_1	A_{1g}	A_1	A_1	A_g	A_{1g}	A_{1g}
A_2	A	A_2	A_2	B_1	A_{2g}	A_2	A_2	A_g	B_{1g}	A_{2g}
E	$\{E\}$	E	$A_1 + A_2$	$A_1 + B_1$	E_g	E	E	$\{E_g\}$	$A_{1g} + B_{1g}$	E_g
T_1	T	$A_2 + E$	$A_2 + B_1 + B_2$	$A_2 + E$	T_{1g}	T_1	T_1	T_g	$A_{2g} + E_g$	$A_{2g} + E_g$
T_2	T	$A_1 + E$	$A_1 + B_1 + B_2$	$B_2 + E$	T_{2g}	T_2	T_2	T_g	$B_{2g} + E_g$	$A_{1g} + E_g$

$C_{\infty v}$	C_{2v}	$D_{\infty h}$	D_{2h}
$A_1 = \Sigma^+$	A_1	Σ_g^+	A_g
$A_2 = \Sigma^-$	A_2	Σ_g^-	B_{1g}
$E_1 = \Pi$	$B_1 + B_2$	Π_g	$B_{2g} + B_{3g}$
$E_2 = \Delta$	$A_1 + A_2$	Δ_g	$A_g + B_{1g}$
		Σ_u^+	B_{1u}
		Σ_u^-	A_u
		Π_u	$B_{2u} + B_{3u}$
		Δ_u	$A_u + B_{1u}$