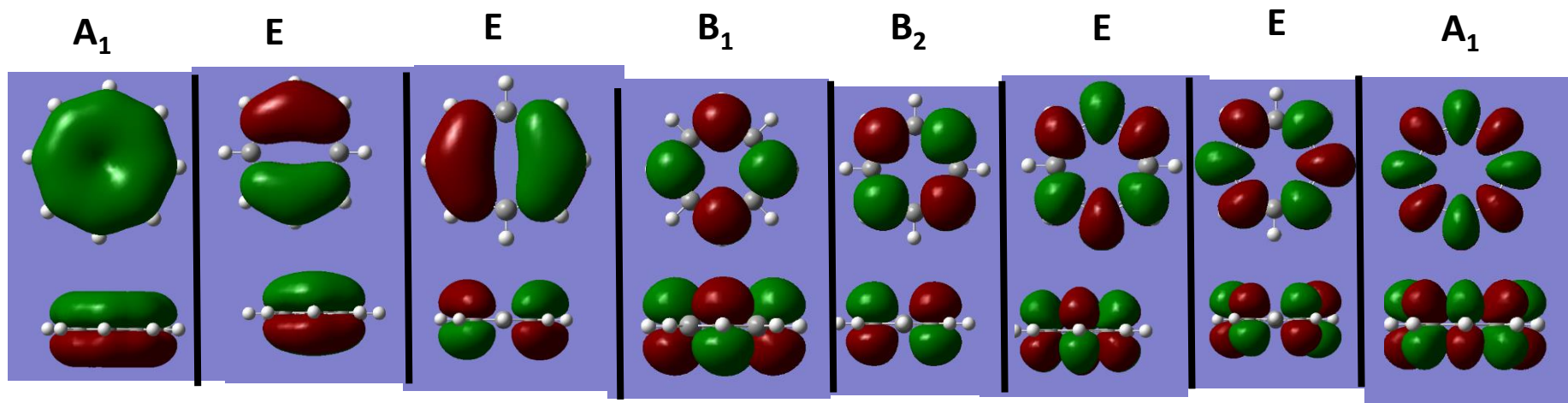
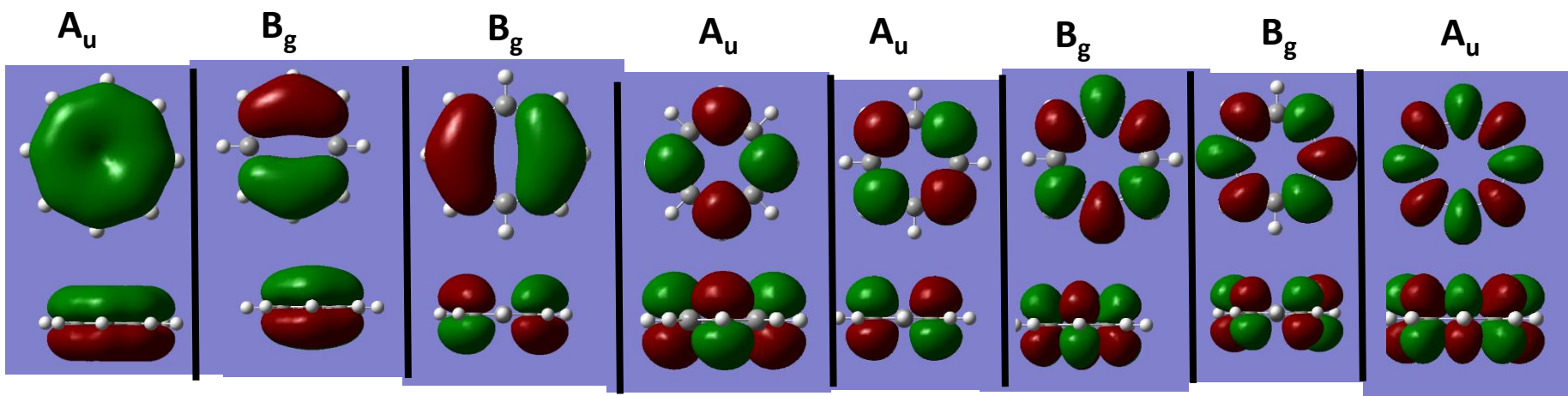


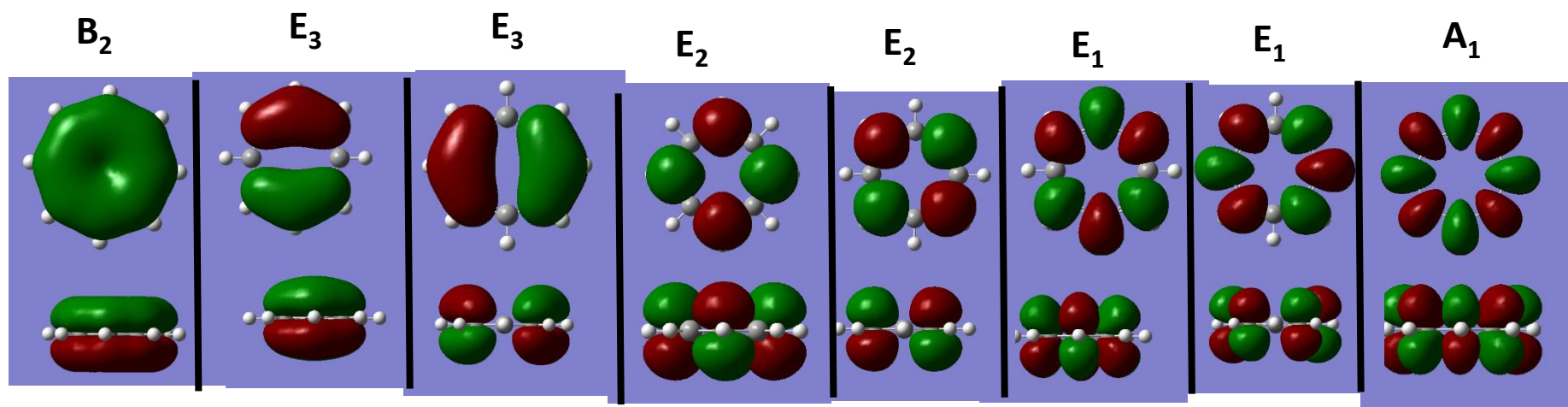
C_{4v}	E	$2C_4(z)$	C_2	$2\sigma_v$	$2\sigma_d$	linear functions, rotations	quadratic functions	cubic functions
A_1	+1	+1	+1	+1	+1	z	x^2+y^2, z^2	$z^3, z(x^2+y^2)$
A_2	+1	+1	+1	-1	-1	R_z	-	-
B_1	+1	-1	+1	+1	-1	-	x^2-y^2	$z(x^2-y^2)$
B_2	+1	-1	+1	-1	+1	-	xy	xyz
E	+2	0	-2	0	0	(x, y) (R_x, R_y)	(xz, yz)	$[x(x^2-3y^2), y(3x^2-y^2)]$



C_{2h}	E	$C_2(z)$	i	σ_h	linear functions, rotations	quadratic functions	cubic functions
A_g	+1	+1	+1	+1	R_z	x^2, y^2, z^2, xy	-
B_g	+1	-1	+1	-1	R_x, R_y	xz, yz	-
A_u	+1	+1	-1	-1	z	-	z^3, xyz, x^2z, y^2z
B_u	+1	-1	-1	+1	x, y	-	$z(x^2-y^2)$
							$[x(x^2-3y^2), y(3x^2-y^2)]$



D_{4d}	E	$2S_8$	$2C_4$	$2(S_8)^3$	C_2	$4C'_2$	$4\sigma_d$	linear functions, rotations	quadratic functions	cubic functions
A_1	+1	+1	+1	+1	+1	+1	+1	-	x^2+y^2, z^2	-
A_2	+1	+1	+1	+1	+1	-1	-1	R_z	-	-
B_1	+1	-1	+1	-1	+1	+1	-1	-	-	-
B_2	+1	-1	+1	-1	+1	-1	+1	z	-	$z^3, z(x^2+y^2)$
E_1	+2	$+(2)^{1/2}$	0	$-(2)^{1/2}$	-2	0	0	(x, y)	-	(xz^2, yz^2) $[x(x^2+y^2), y(x^2+y^2)]$
E_2	+2	0	-2	0	+2	0	0	-	(x^2-y^2, xy)	$[xyz, z(x^2-y^2)]$
E_3	+2	$-(2)^{1/2}$	0	$+(2)^{1/2}$	-2	0	0	(R_x, R_y)	(xz, yz)	$[y(3x^2-y^2), x(x^2-3y^2)]$



D_{8h}	E	$2C_8$	$2(C_8)^3$	$2C_4$	$C_2(z)$	$4C_2'$	$4C_2''$	i	$2(S_8)^3$	$2S_8$	$2S_4$	σ_h	$4\sigma_v$	$4\sigma_d$	linear functions, rotations	quadratic functions	cubic functions
A_{1g}	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	-	x^2+y^2, z^2	-
A_{2g}	+1	+1	+1	+1	+1	-1	-1	+1	+1	+1	+1	+1	-1	-1	R_z	-	-
B_{1g}	+1	-1	-1	+1	+1	+1	-1	+1	-1	-1	+1	+1	+1	-1	-	-	-
B_{2g}	+1	-1	-1	+1	+1	-1	+1	+1	-1	-1	+1	+1	-1	+1	-	-	-
E_{1g}	+2	$+(2)^{1/2}$	$-(2)^{1/2}$	0	-2	0	0	+2	$+(2)^{1/2}$	$-(2)^{1/2}$	0	-2	0	0	(R_x, R_y)	(xz, yz)	-
E_{2g}	+2	0	0	-2	+2	0	0	+2	0	0	-2	+2	0	0	-	(x^2-y^2, xy)	-
E_{3g}	+2	$-(2)^{1/2}$	$+(2)^{1/2}$	0	-2	0	0	+2	$-(2)^{1/2}$	$+(2)^{1/2}$	0	-2	0	0	-	-	-
A_{1u}	+1	+1	+1	+1	+1	+1	+1	-1	-1	-1	-1	-1	-1	-1	-	-	-
A_{2u}	+1	+1	+1	+1	+1	-1	-1	-1	-1	-1	-1	-1	+1	+1	z	-	$z^3, z(x^2+y^2)$
B_{1u}	+1	-1	-1	+1	+1	+1	-1	-1	+1	+1	-1	-1	-1	+1	-	-	-
B_{2u}	+1	-1	-1	+1	+1	-1	+1	-1	+1	+1	-1	-1	+1	-1	-	-	-
E_{1u}	+2	$+(2)^{1/2}$	$-(2)^{1/2}$	0	-2	0	0	-2	$-(2)^{1/2}$	$+(2)^{1/2}$	0	+2	0	0	(x, y)	-	$(xz^2, yz^2) [x(x^2+y^2), y(x^2+y^2)]$
E_{2u}	+2	0	0	-2	+2	0	0	-2	0	0	+2	-2	0	0	-	-	$[xyz, z(x^2-y^2)]$
E_{3u}	+2	$-(2)^{1/2}$	$+(2)^{1/2}$	0	-2	0	0	-2	$+(2)^{1/2}$	$-(2)^{1/2}$	0	+2	0	0	-	-	$[y(3x^2-y^2), x(x^2-3y^2)]$

