

Copy of a printed table referenced as "Heryberg table 23" [possibly variation on Herzberg]

Contributors

Price, William Charles, 1909-1993

Publication/Creation

March 1952

Persistent URL

<https://wellcomecollection.org/works/q4jh4qa2>

License and attribution

You have permission to make copies of this work under a Creative Commons, Attribution, Non-commercial license.

Non-commercial use includes private study, academic research, teaching, and other activities that are not primarily intended for, or directed towards, commercial advantage or private monetary compensation. See the Legal Code for further information.

Image source should be attributed as specified in the full catalogue record. If no source is given the image should be attributed to Wellcome Collection.



Wellcome Collection
183 Euston Road
London NW1 2BE UK
T +44 (0)20 7611 8722
E library@wellcomecollection.org
<https://wellcomecollection.org>

E_1'	+2	$2 \cos 72^\circ$	$2 \cos 144^\circ$	+2	0	0	$+2 \cos 72^\circ$	$+2 \cos 144^\circ$	T_x, T_y
E_1''	+2	$2 \cos 72^\circ$	$2 \cos 144^\circ$	-2	0	0	$-2 \cos 72^\circ$	$-2 \cos 144^\circ$	R_x, R_y
E_2'	+2	$2 \cos 144^\circ$	$2 \cos 72^\circ$	+2	0	0	$+2 \cos 144^\circ$	$+2 \cos 72^\circ$	
E_2''	+2	$2 \cos 144^\circ$	$2 \cos 72^\circ$	-2	0	0	$-2 \cos 144^\circ$	$-2 \cos 72^\circ$	

TABLE 23. SYMMETRY TYPES (SPECIES) AND CHARACTERS FOR THE POINT GROUPS D_{4h} AND D_{6h} .

D_{4h}	I	$2C_4(z)$	$C_4^2 \equiv C_2''$	$2C_2$	$2C_2'$	σ_h	$2\sigma_v$	$2\sigma_d$	$2S_4$	$S_2 \equiv i$	
A_{1g}	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	
A_{1u}	+1	+1	+1	+1	+1	-1	-1	-1	-1	-1	
A_{2g}	+1	+1	+1	-1	-1	+1	-1	-1	+1	+1	R_z
A_{2u}	+1	+1	+1	-1	-1	-1	+1	+1	-1	-1	T_z
B_{1g}	+1	-1	+1	+1	-1	+1	+1	-1	-1	+1	
B_{1u}	+1	-1	+1	+1	-1	-1	-1	+1	+1	-1	
B_{2g}	+1	-1	+1	-1	+1	+1	-1	+1	-1	+1	
B_{2u}	+1	-1	+1	-1	+1	-1	+1	-1	+1	-1	
E_g	+2	0	-2	0	0	-2	0	0	0	+2	R_x, R_y
E_u	+2	0	-2	0	0	+2	0	0	0	-2	T_x, T_y

D_{6h}	I	$2C_6(z)$	$2C_6^2 \equiv 2C_3$	$C_6^3 \equiv C_2''$	$3C_2$	$3C_2'$	σ_h	$3\sigma_v$	$3\sigma_d$	$2S_6$	$2S_3$	$S_6^3 \equiv S_2 \equiv i$	
A_{1g}	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	
A_{1u}	+1	+1	+1	+1	+1	+1	-1	-1	-1	-1	-1	-1	
A_{2g}	+1	+1	+1	+1	-1	-1	+1	-1	-1	+1	+1	+1	R_z
A_{2u}	+1	+1	+1	+1	-1	-1	-1	+1	+1	-1	-1	-1	T_z
B_{1g}	+1	-1	+1	-1	+1	-1	-1	-1	+1	+1	-1	+1	
B_{1u}	+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	
B_{2u}	+1	-1	+1	-1	-1	+1	+1	-1	+1	-1	+1	-1	
E_{1g}	+2	+1	-1	-2	0	0	-2	0	0	-1	+1	+2	R_x, R_y
E_{1u}	+2	+1	-1	-2	0	0	+2	0	0	+1	-1	-2	T_x, T_y
E_{2g}	+2	-1	-1	+2	0	0	+2	0	0	-1	-1	+2	
E_{2u}	+2	-1	-1	+2	0	0	-2	0	0	+1	+1	-2	