

3.3. Raumgruppen (Forts.) Kristallsysteme, Punktgruppen, Bravaisgittertypen

Kristall-Punkt-Gitter-system gruppekonstanten	Bravaisgittertypen				Blickrichtung			Raumgruppen
	<i>P</i> x, y, z	<i>C</i> x, y, z $x + \frac{1}{2}, y + \frac{1}{2}, z$	<i>I</i> x, y, z $x + \frac{1}{2}, y + \frac{1}{2}, z + \frac{1}{2}$	<i>F</i> x, y, z $x + \frac{1}{2}, y + \frac{1}{2}, z$ $x + \frac{1}{2}, y, z + \frac{1}{2}$ $x, y + \frac{1}{2}, z + \frac{1}{2}$	1.	2.	3.	
triklin 1 $a \neq b \neq c$ $\bar{1}$ $\alpha \neq \beta \neq \gamma \neq 90^\circ$					-	-	-	P1 $P\bar{1}$
mono- klin 2 $a \neq b \neq c$ m $\alpha = \gamma = 90^\circ$ $2/m$ $\beta \neq 90^\circ$					[010]	-	-	P2, P2 ₁ , C2 Pm, Pc, Cm, Cc P2/m, P2 ₁ /m, C2/m, P2/c, P2 ₁ /c, C2/c
ortho- rhom- bisch 222 $a \neq b \neq c$ $mm2$ $\alpha = \beta = \gamma = 90^\circ$ mmm					[100]	[010]	[001]	P222, P222 ₁ , P2 ₁ 2 ₁ 2, P2 ₁ 2 ₁ 2 ₁ , C222 ₁ , C222, F222, I222, I2 ₁ 2 ₁ 2 ₁ , Pmm2, Pmc2 ₁ , Pcc2, Pma2 ₁ , Pca2 ₁ , Pnc2 ₁ , Pmn2 ₁ , Pba2, Pna2 ₁ , Pnn2, Cmm2, Cmc2 ₁ , Ccc2, Amm2, Abma, Ama2, Aba2, Fmm2, Fdd2, Immm2, Iba2, Ima2 Pmmm, Pnm, Pccm, Pban, Pmma, Pnna, Pmna, Pcca, Pbam, Pccn, Pbcm, Pnm, Pmmn, Pbcn, Pbcn, Pnma, Cmcm, Cmca, Cmmm, Cccm, Cmma, Ccca, Fmmm, Fddd, Immm, Ibam, Iba, Imma
tetra- gonal 4 $a = b \neq c$ $\bar{4}$ $\alpha = \beta = \gamma = 90^\circ$ $4/m$ 422 $4mm$ $\bar{4}m$ $4/mmm$					[001]	[100]	[110]	P4, P4 ₁ , P4 ₂ , P4 ₃ , I4, I4 ₁ P4, I4 P4/m, P4 ₂ /m, P4/n, P4 ₂ /n, I4/m, I4 ₁ /a P422, P42 ₁ 2, P4 ₁ 22, P4 ₁ 2 ₁ 2, P4 ₂ 22, P4 ₂ 2 ₁ 2, P4 ₃ 22, P4 ₃ 2 ₁ 2, I422, I4 ₁ 22 P4mm, P4bm, P4 ₂ cm, P4 ₂ nm, P4cc, P4nc, P4 ₂ mc, P4 ₂ bc, I4mm, I4cm, I4 ₁ md, I4 ₁ cd P42m, P4 ₂ c, P4 ₂ 1m, P4 ₂ 1c, P4m2, P4 ₂ c, P4b2, P4 ₁ n2, I4m2, I4c2, I42m, I42d P4/mmm, P4/mcc, P4/nbm, P4/nnc, P4/mbm, P4/mnc, P4/nmm, P4/ncc, P4 ₂ /mmc, P4 ₂ /mcm, P4 ₂ /nbc, P4 ₂ /nmm, P4 ₂ /mbc, P4 ₂ /mnm, P4 ₂ /nmc, P4 ₂ /ncm, I4/mmm, I4/mcm, I4 ₁ /amd, I4 ₁ /acd
tri- gonal 3 $a = b = c$ $\bar{3}$ $\alpha = \beta = \gamma \neq 90^\circ$ 32 $3m$ $\bar{3}m$					[111]	[110]	-	P3, P3 ₁ , P3 ₂ , R3 P3, R3 P312, P321, P3 ₁ 12, P3 ₁ 21, P3 ₂ 12, P3 ₂ 21, R32 P3m1, P31m, P3c1, P31c, R3m, R3c P31m, P31c, P3m1, P3c1, R3m, R3c
hexa- gonal 6 $a = b \neq c$ $\bar{6}$ $\alpha = \beta = 90^\circ$ $6/m$ $\gamma = 120^\circ$ 622 $6mm$ $\bar{6}m$ $6/mmm$					[001]	[100]	[110]	P6, P6 ₁ , P6 ₅ , P6 ₃ , P6 ₂ , P6 ₄ P6 P6/m, P6 ₃ /m P622, P6 ₁ 22, P6 ₅ 22, P6 ₂ 22, P6 ₄ 22, P6 ₃ 22 P6mm, P6cc, P6 ₃ cm, P6 ₃ mc P6m2, P6c2, P62m, P62c P6/mmm, P6/mcc, P6 ₃ /mcm, P6 ₃ /mmc
kubisch 23 $a = b = c$ $m\bar{3}$ $\alpha = \beta = \gamma = 90^\circ$ 432 $\bar{4}3m$ $m\bar{3}m$					[100]	[111]	[110]	P23, F23, I23, P2 ₁ 3, I2 ₁ 3 Pm3, Pn3, Fm3, Fd3, Im3, Pa3, Ia3 P432, P4 ₂ 32, F432, F4 ₁ 32, I432, P4 ₃ 32, P4 ₁ 32, I4 ₁ 32 P43m, F43m, I43m, P43n, F43c, I43d Pm3m, Pn3n, Pm3n, Pn3m, Fm3m, Fm3c, Fd3m, Fd3c, Im3m, Ia3d