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An error in space group $P6_222$ in *International Tables for X-ray Crystallography*.

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Abstract

An error in the structure-factor expression for space group $P6_222$ (No. 180) has been found in *International Tables for X-ray Crystallography*, Volume I, 1st through 3rd editions. The minus sign of the second sine function in the B part of the equation for $l = 3n \pm 1$ should be a plus sign.

An error in the B part of the equation for $l = 3n \pm 1$ for space group $P6_222$ (No. 180) on p. 481 of *International Tables for X-ray Crystallography* (1952, 1965, 1969) has been found. The minus sign of the second sine function should be a plus sign. The correct equation is

$$B = 4\{\sin 2\pi lz \sin \pi h(2x-y) \sin \pi(i-k)y$$
$$+\sin 2\pi(lz \mp \tfrac{1}{3}) \sin \pi h(x+y) \sin \pi(i-k)(y-x)$$
$$+\sin 2\pi(lz \pm \tfrac{1}{3}) \sin \pi h(x-2y) \sin \pi(i-k)x\}.$$

Reference

International Tables for X-ray Crystallography (1952, 1965, 1969). Vol. I. Birmingham: Kynoch Press.