

Nucleic Acid Crystallography

Structure Solution

How can we estimate the phase of our reflections?

h	k	l	F	phi
1	1	1	20	90

The phase

$$\rho(x, y, z) = \frac{1}{V} \sum_h \sum_k \sum_l |F_{hkl}| e^{2\pi i \phi_{hkl}} e^{-2\pi i (hx + ky + lz)}$$

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Use prior knowledge