

## 1.79: Patterson methods

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The family of methods employed in structure determination to derive relationships between the scattering centers in a crystal lattice when the diffraction phases are unknown. They depend upon interpretation of the *Patterson function*

$$P(uvw) = \frac{1}{V} \sum_h \sum_k \sum_l |F(hkl)|^2 \cos[2\pi(hu + kv + lw)]$$

to reveal interatomic vectors within the unit cell.

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