wigner-seitz cell - another primitive cell in the real space Tracal
Spare

L bisaction
of the lines
connecting the
basis drow the line between the necrost neighborr basis taking the least length and then take the perpendicular bisection of those lines and you will get the Wigner Seitz cell Reciprocal Lattice (= fourier space/Kspace/momentum space) Cladronic number dessity = n(1) in the crystal is periodic M(r) = n(r+R) > R: primitive unit vector = period Regual to a direct lattice troislational vector: R= ua + v6 + wc U,v,w - numbers (const) M(r) con be expressed as a fourier socies M(r) = Engeiks unere $N_G = \frac{1}{V_G} \int dV \, n(r) e^{-ikn}$ where K = Reciprocal Lattice vectors reciprocal lattice represents the fourier transform of another Lattice K. R = 2π Sij eier = 1 for unique R, we have unique k