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Fuller, Watson, 1935-

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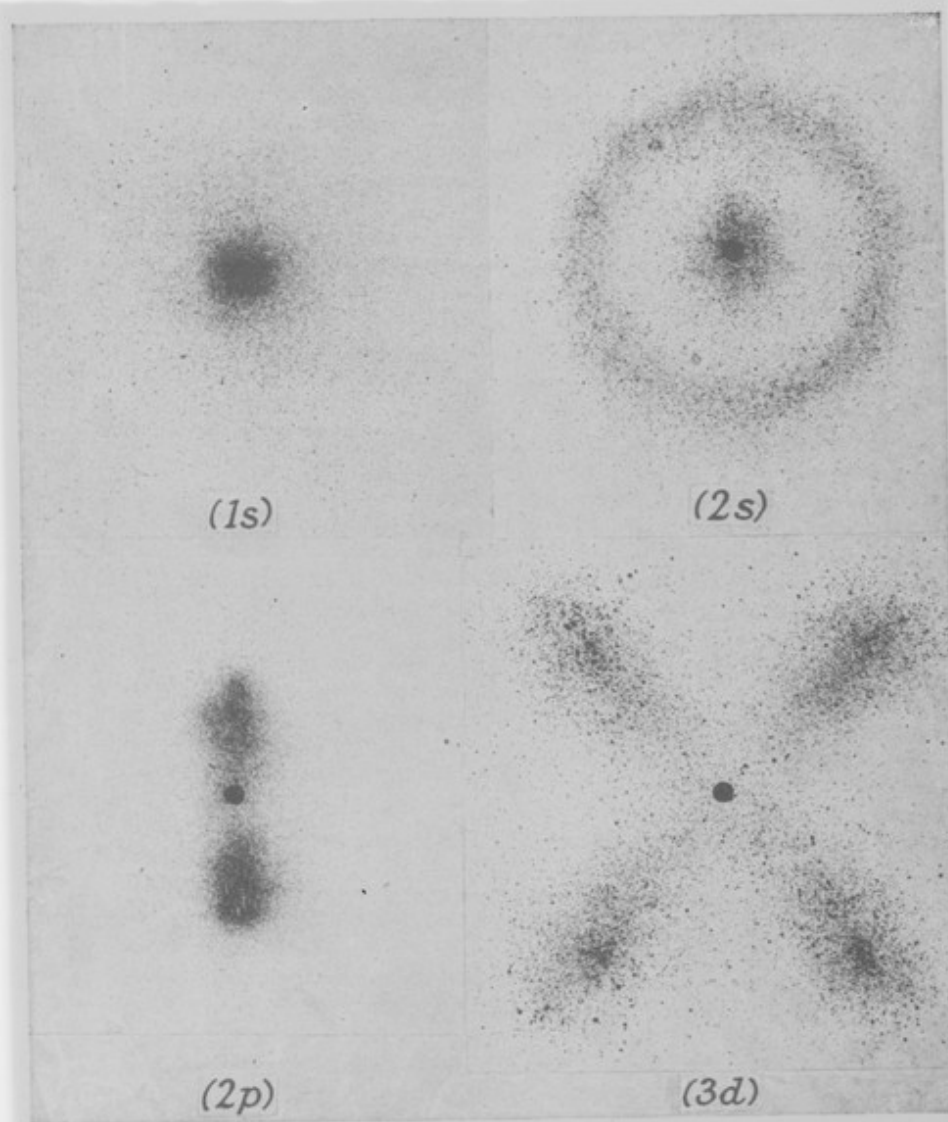
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(1s)

(2s)

(2p)

(3d)

Some atomic orbitals for hydrogen.

where ψ is of opposite sign are separated by a 'nodal plane', over which $\psi = 0$. For example, in the orbital p_x , this is the plane