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In solid state physics we take the central (Wigner-Seitz) cell of the recipro- reciprocal lattice as the first Brillouin zone. Each such cell contains one lattice point at the central point of the cell. This zone (for the bee lattice) is bounded by the planes normal to the 12 vectors of Eq. C2) at their midpoints.

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Charles Kittel did his undergraduate work in physics at M.I.T and at the Cavendish Laboratory of Cambridge University. He received his Ph.D. from the University of Wisconsin. He worked in the solid state group at Bell Laboratories, along with Bardeen and Shockley, leaving to start the theoretical solid state physics group at Berkeley in 1951.

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The diffraction work proved decisively that crystals are built of a periodic array of atoms or groups of atoms. With an established atomic model of a crystal, physicists could think much further, and the development of quantum theory was of great importance to the birth of solid state physics.

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