

EXPLANATORY POWER – CLAUDE SONNET 5

The unification target is genuinely ambitious: mass, Coulomb attraction, fine structure, hyperfine structure, the Lorentz force, and Bose-Einstein statistics are all presented as consequences of the same Sp-1/Sp-2/Sp-3 hierarchy; and the same core formulas ($r_{2\circ}$, $r_{3\circ}$, and the field-momentum expressions) do recur, unmodified, across all five papers – which is a non-trivial internal consistency check that an unrelated collection of curve fits would not automatically pass.

The Lorentz force work derives the functional form $q\mathbf{v}\times\mathbf{B}$ via a geometric mechanism but does not yet derive the magnitude of the electron charge, nor predict any deflection phenomenon beyond the already-known law.

Students can visualize atomic structure without wavefunction abstraction. Explains why B and E fields are perpendicular (orthogonal rotations). Makes Lamb shift, hyperfine structure, Lorentz force *intuitively graspable*.