A Discussion of Unified Field Mechanics and Fundamental Elements Associated Geometrodynamics, Thermodynamics and Extended Electromagnetism

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Abstract. A third regime is proposed in the natural progression of the description of the physical world - Classical to Quantum to Unified Field (*UF*) Mechanics. We describe the new conceptual panoply and propose an experimental method to falsify the new *UF* hypotheses. Like Penzias & Wilson wondering if bird droppings affected their antenna we describe a serendipitous insight into wavepacket dispersion of 1800 MHz telecommunication em-waves in the arena where signal strength attenuates periodically by factors attributed to perceived properties that we postulate can only be mediated by *UF* mechanics. Salient suggested elements include extended geometrodynamics (duality of Newton's instantaneous and Einstein's relativistic models), Solar dynamo activity, geomagnetic phenomena, seasonal precession of the Earth's axis, near - far field: geomagnetic core dynamo - solar scale-invariant wavepacket dispersion coupling and longitudinal em components. This *UF* model putatively also provides an indirect measure of photon mass.

Keywords: Geometrodynamics, Scale-invariance, Unified field mechanics