

Unified Field Mechanics: An Introduction

Richard L. Amoroso
Noetic Advanced Studies Institute
Escalante Desert, UT USA
amoroso@noeticadvancedstudies.us

Henceforth space by itself and time by itself are doomed to fade into the mere shadows, and only a union of the two will preserve an independent reality. – 1908 Hermann Minkowski

Abstract. Recently we hear physicists saying, ‘spacetime is doomed’, ‘spacetime is a mirage’, the ‘end of spacetime’ etc. We have come full circle from the time of Minkowski’s 1908 statement to the brink of an imminent new age of discovery. The basis of our understanding of the natural world has evolved from Newtonian Mechanics to the 2nd regime of Quantum Mechanics; and now to the threshold of a 3rd regime of Unified Field Mechanics (UFM). The Planck scale stochastic quantum realm can no longer be considered the ‘basement’ or fundamental level of reality. As hard as quantum reality was to imagine so is the fact that the quantum domain is a manifold of finite radius. For decades main stream physicists have been stymied by efforts to reconcile General Relativity with Quantum Mechanics. The stumbling block lies with the two theories conflicting views of space and time. For quantum theory, space and time offer a fixed backcloth against which particles move. In Einstein's relativities, space and time are not only inextricably linked, but the resultant space-time is warped by the matter within it. In our UFM paradigm for arcane reasons the quantum manifold is not the regime of integration with gravity, it is instead integrated with the domain of the unified field where the forces of nature are deemed to unify. We give a survey of the fundamental premises of UFM and summarize experimental protocols to falsify the model.

References

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