## Abstract Submitted for the APR08 Meeting of The American Physical Society

Scientific Revolutions to the nth power: n = 0, 1, 2, 3. JAMES BEICHLER, West Virginia Univ. at Parkersburg — Thomas Kuhn's description and characterization of scientific revolutions set the standard for interpreting and understanding these events, but his characterization introduced an anomaly. Newtonian science was at the pinnacle of its success immediately prior to the Second Scientific Revolution. From an evolutionary point-of-view, there were no crises to be solved just problems within the Newtonian paradigm, whereas the specific crises that initiated the revolution are evident from everyone's point-of-view after the revolution. This paradox is well recognized, but it seems not to be a problem and is just ignored as if it were not important or significant. Yet this discrepancy strikes at the very heart of physics and the overall progress of science. Historical conditions currently parallel the period immediately prior to the Second Scientific Revolution indicating that a new scientific revolution is approaching. When a comparison of the two periods is made, new characteristics of scientific revolutions are identified, the paradox is solved and evidence of a Zeroth Scientific Revolution emerges from the historical record.

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