

Table of Contents

Volume 3 Number 1

January 2017

Part 1: Possible Graviton Detection, for Outer Space Treatment of the Gertenshehtein Effect. *i.e.* Dyson’s Construction/Analysis Does Not Precludes Earth Bound Generation of Gravitons

A. W. Beckwith.....	1
Initial Mass in Pre-Planckian Space-Timed Defined, and Causal Discontinuity	
A. W. Beckwith.....	9
(Precursor for) Quantum Boundary Conditions for Expanding Universe	
A. W. Beckwith.....	16
Examination of Schrodinger Equation in Pre-Planckian Space-Time Early Universe	
A. W. Beckwith.....	21
Calculating δg_{tt} at Boundary of Start of Planckian Physics Due to 1 Million Relic Black Holes	
A. W. Beckwith.....	29
Examination of Sufficient Conditions for Forming Mass of “Massive Graviton”, from Early Universe	
A. W. Beckwith.....	34
Examination of Minimum Time Step, from Modified Heisenberg Uncertainty Principle, Inflaton Physics and Black Hole Physics	
A. W. Beckwith.....	39
Does GW Generation Have Semi-Classical Features?	
A. W. Beckwith.....	46
Examination of $h(x)$ Real Field of Higgs Boson as Originating in Pre-Planckian Space-Time Early Universe	
A. W. Beckwith.....	62
From the Oscillating Universe to Relativistic Energy: A Review	
C. Cataldo.....	68
Padé Approximant for the Equation of Motion of a Supernova Remnant	
L. Zaninetti.....	78
Calculation of the Gravitational Constant G Using Electromagnetic Parameters	
J. Sánchez.....	87