

## **NOTEBOOK VOLUME TABS**

**Volume 1: Noncommutative Chern-Simmons; Noncommutative Spacetime**  
(02/02 – 03/05)

**Volume 2: GRB's; Symplectic & Casual Structure for Noncommutative Cone**  
(Light and Cone); **POST STRINGS 2004** (03/03 – 08/04)

**Volume 3: Noncommutative Spacetime** (01/05 – 12/06)

**Volume 4: TRIESTE Conference** (02/05 – 02/06)

**Volume 5: Noncommutative Spacetime** (03/05 – 04/05)

**Volume 6: Noncommutative Spacetime** (04/05 – 08/05)

**Volume 7: T.A.S.I. (Boulder CO w/Herman Verlinde et.al.)** (06/05 – 06/05)

**Volume 8: Noncommutative Spacetime** (08/05 – 01/06)

**Noncommutative Field SP.** (09/06 – 10/06) (Missing)

**Volume 9: Noncommutative Spacetime** (07/06 – 02/08)

**Casimir Dark Energy** (01/07 – 02/07) (Missing)

**Volume 12: Noncommutative Spacetime—Rindler, Liouville; Gravity from**  
**Commutators; Noncommutative Pseudo-Complex; Geometry** (02/07 – 06/08)

**Volume 13: Untitled (Continuation of Volume 12?)** (06/08-1/09)

**Volume 14: (Notes on Strings) 2009**

**Noncommutative Spacetime** (03/26/09 – 05/08/09) (Missing)

**Volume 15: Emergent Gravity; Steinacker** (05/09 – 05/09)

**Volume 16: Gauge Gravity (06/09 – 11/09)**

**Volume 17: Gauge Gravity (11/09 – 04/10)**

**Volume 18: Gauge Gravity (04/10 – 7/10)**

**Volume 19: Gauge Gravity and Teleparallelism; Local Translations; Peirels Bracket; Poisson-Lie Bracket; Weyl; Tanimura; Wong Equations (07/10-09/10)**

**Volume 20: Gauge Theory and Paralellism, Kleinert, & Wong Equations (09/10-02/11)**

**Volume 21: Wong Equations for Gravitation (11/2010)**

**Volume 22: Gravitational Theory and Quantum Theory: Implications (01/11-02/11)**

**Volume 23: Mainly notes on Quantum Theory, its Interpretation, Formalism, etc. The Birkhoffian Generalization of Quantum Theory (3/11-4/11)**

**Volume 24: Mainly Gauge Gravity ideas, Using Chapter 6 of the Chinese Book as Launching Point (4/11-7/11)**

**Volume 25: Local Translations and Thermodynamics, The Thermodynamic-Mechanic Duality (8/2011)**

**Volume 26: Non-Generated Diffeomorphisms (9/11-10/11)**

**Volume 27: Diffeomorphisms (continued) (10/11-11/11) and A Few Thoughts on Generalized Gauge Theory, (11/11-12/11)**

**Volume 28: An Algebraic Gauge Approach to Gravity (Part I): Work here is concurrent with Notebook dated: 4/12 – 5/12**

**Volume 29: Concurrent with Notebook dated: 2/12 – 7/12**

**Volume 30: Notes on the Teleparallel Equivalent of General Relativity; on Lie's Third Theorem (6/12-9/12)**

**Final Notebook: On Principle of Equivalence and Diffeomorphisms (6/12-9/12)**