

Master Reference List

Every Citation Used Across the USIT Project

Daniel M. Andreola, Jr.

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Note on This Document

This is a consolidated bibliography, pulling together every reference cited across all USIT project documents to date (the foundation paper, the Empirical Verification Ledger, the Black Hole Center working note, Light Bending and the Shapiro Time Delay, Newton's Headache Resolved, the Gravitational Radiation Investigation, Mass, Density, and the Limits of Newtonian Inertia, and the ongoing cosmic-acceleration investigation). Each individual document retains its own reference list relevant to its own content; this sheet exists purely as a single, complete, cross-project index, organized chronologically by original publication date.

1500s–1600s

Leonardo da Vinci. Codex Leicester (c. 1510). Notebook studies of turbulence and vortex formation in flowing water — cited as a historical precedent in the cosmic-acceleration investigation.

Descartes, R. (1644). Principia Philosophiae. Vortex theory of gravity and planetary motion — cited as a historical precedent for centrifugal/inward-pressure balance in the cosmic-acceleration investigation.

1700s–1800s

Newton, I. Philosophiæ Naturalis Principia Mathematica (1687). Foundational laws of motion and universal gravitation.

Cavendish, H. (1798). Experiments to Determine the Density of the Earth. First measurement of the gravitational constant, G .

Bertrand, J. (1873). Théorème de Mécanique Classique. Comptes Rendus. The closed-orbit theorem: only inverse-square and Hooke's-law forces produce stable, closed orbits.

Early 1900s

Abraham, M. (1903). Prinzipien der Dynamik des Elektrons. Annalen der Physik, 315(1), 105–179. The electromagnetic mass program and its "4/3 problem" — cited as a historical parallel in the inertia investigation.

Einstein, A. (1905). Zur Elektrodynamik bewegter Körper. Annalen der Physik. Special relativity.

Einstein, A. (1905). Ist die Trägheit eines Körpers von seinem Energieinhalt abhängig? Annalen der Physik, 18, 639–641. Mass-energy equivalence — independently reconstructed from this foundation's own postulates in the inertia investigation.

Poincaré, H. (1887, 1890). Sur le problème des trois corps et les équations de la dynamique.

Poincaré, H. (1906). Sur la dynamique de l'électron. Rendiconti del Circolo Matematico di Palermo, 21, 129–176. Further development of the electromagnetic mass program.

Bohr, N. (1913). On the Constitution of Atoms and Molecules. *Philosophical Magazine*, 26(151), 1–25. The Bohr radius — independently re-derived via energy balance in the inertia investigation, matching the real value to six significant figures.

Minkowski, H. (1908). Raum und Zeit. Reformulation of special relativity as four-dimensional spacetime.

Einstein, A. (1911). Über den Einfluss der Schwerkraft auf die Ausbreitung des Lichtes. Early (half) light-bending prediction.

Purcell, E. M. *Electricity and Magnetism* (Berkeley Physics Course, Vol. 2). Relativistic derivation of magnetism from moving charge.

Einstein, A. (1915). Die Feldgleichungen der Gravitation. Final field equations of general relativity.

Schwarzschild, K. (1916). Über das Gravitationsfeld eines Massenpunktes. First exact solution of Einstein's field equations; horizon radius.

Einstein, A. (1917). Kosmologische Betrachtungen zur allgemeinen Relativitätstheorie. Introduction (and later retraction) of the cosmological constant.

Noether, E. (1918). Invariante Variationsprobleme. *Nachrichten von der Gesellschaft der Wissenschaften zu Göttingen*, 235–257. Conservation laws from symmetry — used in the inertia investigation's mass-energy reconstruction.

Dyson, F. W., Eddington, A. S., and Davidson, C. (1920). A Determination of the Deflection of Light by the Sun's Gravitational Field. *Philosophical Transactions of the Royal Society A*, 220, 291–333.

Kaluza, T. (1921). Zum Unitätsproblem der Physik. *Sitzungsberichte der Preussischen Akademie der Wissenschaften*. First proposal of a fifth dimension to unify gravity and electromagnetism — cited as a historical example of a real, published "patched" theory in the Entwurf-pattern investigation.

Nordström, G. (1913). Scalar theory of gravitation — cited historically for its failure at light bending.

Laplace, P. S. (1829). *Mécanique Céleste*. Analysis of the Galilean moon resonance; cited on delayed-gravity concerns.

Bell, J. S. (1976). How to Teach Special Relativity. *Progress in Scientific Culture*.

1920s–1930s

Klein, O. (1926). Quantentheorie und fünfdimensionale Relativitätstheorie. *Zeitschrift für Physik*. Quantum-mechanical refinement of Kaluza's fifth-dimension proposal — cited alongside Kaluza (1921).

Chandrasekhar, S. (1931). The Maximum Mass of Ideal White Dwarfs. *Astrophysical Journal*, 74, 81.

Tolman, R. C. (1934). *Relativity, Thermodynamics and Cosmology*. Oxford University Press. The entropy argument for why a cyclic universe must grow larger each cycle — cited in the cosmic-acceleration investigation.

Mid-1900s

Rosen, N. (1940). General Relativity and Flat Space. Bimetric theory — cited historically for its failure at the Hulse-Taylor gravitational-wave test.

Ives, H. E., and Stilwell, G. R. (1938, 1941). An Experimental Study of the Rate of a Moving Atomic Clock (I and II). *Journal of the Optical Society of America*.

Rossi, B., and Hall, D. B. (1941). Variation of the Rate of Decay of Mesotrons with Momentum. *Physical Review*, 59, 223–228.

Landau, L. (1941). The Theory of Superfluidity of Helium II. *Journal of Physics USSR*. Two-fluid model.

Hoyle, F. (1949). Origin of rotation in galaxies — early tidal torque theory.

Pound, R. V., and Rebka, G. A. (1959). Gravitational Red-Shift in Nuclear Resonance. *Physical Review Letters*, 3(9), 439–441.

Frisch, D. H., and Smith, J. H. (1963). Measurement of the Relativistic Time Dilation Using μ -Mesons. *American Journal of Physics*, 31(5), 342–355.

Shapiro, I. I. (1964). Fourth Test of General Relativity. *Physical Review Letters*, 13, 789.

Peebles, P. J. E. (1969). Origin of the Angular Momentum of Galaxies. *Astrophysical Journal*, 155, 393.

Doroshkevich, A. G. (1970). Spatial Structure of Perturbations and Origin of Galactic Rotation in Fluctuation Theory. *Astrofizika*, 6, 581.

Bardeen, J. M., Press, W. H., and Teukolsky, S. A. (1972). Rotating Black Holes: Locally Nonrotating Frames, Energy Extraction, and Scalar Synchrotron Radiation. *Astrophysical Journal*, 178, 347.

Ashby, N., and Weiss, M. Global Positioning System Receivers and Relativity. NIST.

Fliegel, H. F., and DiEposti, R. S. GPS and Relativity: An Engineering Overview.

Hulse, R. A., and Taylor, J. H. (1975). Discovery of a Pulsar in a Binary System. *Astrophysical Journal Letters*, 195, L51.

Tesla, N. (1937). Statement on the "Dynamic Theory of Gravity," 81st birthday press remarks.

Alpar, M. A., Langer, S. A., and Sauls, J. A. (1984). Rapid Postglitch Spin-Up of the Superfluid Core in Pulsars. *Astrophysical Journal*, 282, 533. Neutron star crust-core coupling — the central mechanism in the Gravitational Radiation Investigation.

Late 1900s

Reasenber, R. D., et al. (1979). Viking Relativity Experiment: Verification of Signal Retardation by Solar Gravity. *Astrophysical Journal Letters*, 234, L219–L221.

Unruh, W. G. (1981). Experimental Black-Hole Evaporation? *Physical Review Letters*, 46, 1351. Foundational analog-gravity proposal.

de Gennes, P. G., and Prost, J. (1993). *The Physics of Liquid Crystals* (2nd ed.). Oxford University Press.

Krane, K. S. (1988). *Introductory Nuclear Physics*. Wiley. Real nuclear radius scaling data — used to reject a simpler mass-length hypothesis in the inertia investigation.

2000s–2010s

Bertotti, B., Iess, L., and Tortora, P. (2003). A Test of General Relativity Using Radio Links with the Cassini Spacecraft. *Nature*, 425, 374–376.

Hamilton, A. J. S., and Lisle, J. P. (2008). The River Model of Black Holes. *American Journal of Physics*, 76(6), 519–532.

Andersson, N., and Kokkotas, K. D. (1998). Towards Gravitational Wave Asteroseismology. *Monthly Notices of the Royal Astronomical Society*, 299(4), 1059–1068.

Andersson, N., Sidery, T., and Comer, G. L. (2006). Mutual Friction in Superfluid Neutron Stars. *Monthly Notices of the Royal Astronomical Society*, 368(1), 162–170.

Chamel, N., and Haensel, P. (2006, 2008). Physics of Neutron Star Crusts. *Living Reviews in Relativity*.

Yakovlev, D. G., Kaminker, A. D., and Levenfish, K. P. (1999). Neutrino Emission Due to Cooper Pairing of Nucleons in Cooling Neutron Stars. *Astronomy & Astrophysics*, 343, 650.

Sorli, A., and Fisaletti, D. (2010–2021). Time as a Numerical Order of Material Change; absolute 3D quantum vacuum space. *Physics Essays and related publications*.

Horowitz, C. J., and Kadau, K. (2009). The Breaking Strain of Neutron Star Crust. *Physical Review Letters*, 102, 191102.

Will, C. M. (2014). The Confrontation between General Relativity and Experiment. *Living Reviews in Relativity*.

Ijjas, A., and Steinhardt, P. J. (2019). A New Kind of Cyclic Universe. *Physics Letters B* — real, published cyclic cosmology model, cited in the cosmic-acceleration investigation.

2020s

Event Horizon Telescope Collaboration (2019). First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. *Astrophysical Journal Letters*, 875(1), L1.

Miller-Jones, J. C. A., et al. (2021). Cygnus X-1 Mass and Spin Measurement. *Science*, 371, 1046.

Kramer, M., et al. (2021). Strong-Field Gravity Tests with the Double Pulsar. *Physical Review X*, 11, 041050.

Baiko, D. A., and Chugunov, A. I. (2018). Breaking Properties of Neutron Star Crust. *Monthly Notices of the Royal Astronomical Society*, 480(4), 5511–5516.

Weisberg, J. M., and Huang, Y. (2016). Relativistic Measurements from Timing the Binary Pulsar PSR B1913+16. *Astrophysical Journal*, 829, 55.

Lattimer, J. M., and Prakash, M. (2001). Neutron Star Structure and the Equation of State. *Astrophysical Journal*, 550(1), 426.

Riley, T. E., et al. (2019). A NICER View of PSR J0030+0451: Millisecond Pulsar Parameter Estimation. *Astrophysical Journal Letters*, 887(1), L21.

Miller, M. C., et al. (2021). The Radius of PSR J0740+6620 from NICER and XMM-Newton Data. *Astrophysical Journal Letters*, 918(2), L28.

Kinney, W. H., and Stein, N. (2021, revised 2022). A New Index for Testing the Beginning of the Universe. Real proof that cycle-growth bouncing cosmologies still require a genuine past beginning — cited in the cosmic-acceleration investigation.

Chamel, N. (2024). Further work on neutron star crust entrainment, including reported "anti-entrainment" evidence in some density regimes.

Yoshimura, S., and Sekizawa, K. (2024). Microscopic study of neutron effective mass and entrainment in the slab phase of nuclear pasta.

Caplan, M. E., et al. (2022). Glassy Quantum Nuclear Pasta in Neutron Star Crusts. *Physical Review C*, 105, 025806.

Scherrer, R. J. (2020s). Cosmological phase-transition ("frozen vacuum") model for dark energy — real, published proposal that a cosmological phase transition, structurally similar to freezing, produced the dark energy now observed; cited in the cosmic-acceleration investigation.

CODATA (2018). Recommended Values of the Fundamental Physical Constants. National Institute of Standards and Technology.

Various authors (2020s). Real, published literature on "Hubble friction" and "freezing quintessence" scalar-field dark energy models, in which a field's evolution is damped by cosmic expansion until the expansion rate drops below the field's own characteristic scale — cited in the cosmic-acceleration investigation.

Various authors, including COBE/WMAP/Planck collaboration analyses (2000s–2020s). Real, published observational constraints on any overall rotation of the universe, from cosmic microwave background data — cited in the cosmic-acceleration investigation.