Biographical Sketch for Andreas J. Albrecht

Professional Preparation: University of Pennsylvania, Philadelphia, PA; Ph.D. May 1983 (Thesis: "A New Inflationary Cosmology"); Cornell University, Ithaca, NY; BA May 1979 (Cum Laude in Physics); University of Texas, Austin, TX; Post Doctoral Research Fellow 1983 – 1985; Los Alamos National Lab, Los Alamos, NM; Post Doctoral Research Fellow 1985 - 1987.

Appointments: University of California - Davis, Davis, CA; Professor 1998 – Present; Imperial College, London England; Professor 1998, Reader 1995 - 1998, Lecturer 1992 – 1995; Fermi National Accelerator Laboratory, Batavia, IL, Associate Scientist 1987 – 1992.

Selected Recent Publications:

Cosmic Curvature from de Sitter equilibrium cosmology, A. Albrecht, arXiv:1104.3315

Lorentz symmetry from a random Hamiltonian, A. Albrecht and A. Iglesias, arXiv:1003.2566

Effects of Inhomogeneity on the Causal Entropic prediction of Lambda, D. Phillips and A. Albrecht, arXiv:0903.1622

Curvature Constraints from the Causal Entropic Principle, B. Bozek, A. Albrecht and D. Phillips, Phys. Rev. D 80, 023527 (2009)

Exploring Parameter Constraints on Quintessential Dark Energy: The Inverse Power Law Model, M. Yashar, B. Bozek, A. Abrahamse, A. Albrecht, M. Barnard, Phys. Rev. D 79, 103004 (2009)

The clock ambiguity: Implications and new developments. A. Albrecht and A. Iglesias, Proceedings of "The Origin of Time's Arrow" New York Academy of Sciences (2008)

Exploring Parameter Constraints on Quintessential Dark Energy: The Exponential Model, B. Bozek, A. Abrahamse, A. Albrecht, M. Barnard, Phys. Rev. D 77, 103504 (2008)

A measure of the impact of future dark energy experiments based on discriminating power among quintessence models, M. Barnard, A. Abrahamse, A. Albrecht B. Bozek, M. Yashar, Phys. Rev. D 78, 043528 (2008)

The clock ambiguity and the emergence of physical laws, A. Albrecht and A. Iglesias, Phys. Rev. D 77, 063506 (2008)

Report of the Dark Energy Task Force, A. Albrecht *et al.*, arXiv:astro-ph/0609591 (2006)

Cosmic Inflation and the Arrow of Time, A. Albrecht, in "Science and Ultimate Reality: Quantum Theory, Cosmology and Complexity", honoring John Wheeler's 90th birthday. J. D. Barrow, P.C.W. Davies, & C.L. Harper eds. Cambridge University Press (2004)

Synergistic Activities: Fellow of the American Physical Society; Fellow of the Institute of Physics (UK); ASTRO 2010 Decadal Survey Particle Astrophysics and Gravity subcommittee (2009-2010); Joint Dark Energy Mission Figure of Merit Science Working Group (DoE/ESA/NASA) 2008; Kavli Institute for Cosmological Physics External Advisory Board (University of Chicago) 2007-present; Particle Physics Project Prioritization Panel (P5) 2005 – 2007; Astronomy and Astrophysics Advisory Committee and the High Energy Physics Advisory Panel "Dark Energy Task Force" 2005 – 2006; NASA/DOE "Joint Dark Energy Mission Science Definition Team" 2004 – 2006; Editorial Board for *Physical Review D* (2010-2012); Aspen Workshop on *Wide Fast Deep Surveys: New Frontier for Cosmology* June 2009; Aspen Workshop on *Testing General Relativity in the Cosmos* June 2009; Perimeter Institute Workshop on *Holographic Cosmology* July 2009