Invited Talks at Meetings and Workshops
Andreas Albrecht
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1. **Inflation 1984**, *Fifth Workshop on Grand Unification* Providence RI, April 1984.

2. **Particle Physics Turns to Cosmology**, *Meeting of the AAAS*, Los Angeles, May 1985.

3. **Cosmic String Evolution**, *Aspen Winter Conference*, Aspen CO, January 1986.

4. **Evolution of Cosmic Strings: Possible Seeds of Galaxies**, *Spring Meeting of the APS*, Washington DC, April 1986.

5. **Formation and Evolution of Cosmic Strings**, *Nearly Normal Galaxies:* From the Plank Time to the Present. Santa Cruz CA, 1986.

6. **Cosmology for high-energy physicists**. Lectures presented at *the Theoretical Advanced Studies Inst*., Santa Fe, NM, Jul 5 - Aug 1, 1987.

7. **New simulations of cosmic string evolution**, *Cosmic Strings: the Current Status New Haven*, CT May 6-8, 1988.

8. **Cosmic String Review** *CITA Computing Cosmologies Workshop*. Toronto, Ont. April 28-29, 1989.

9. **Small scale structure on cosmic strings**. *Formation and Evolution of Cosmic Strings*, Cambridge, Eng., Jul 2-7, 1989.

10. **Density perturbations from cosmic strings: Can you see the strings above the noise?** *First International Symposium on Particles, Strings, and Cosmology*, Boston, MA; March 27-31, 1990.

11. **The Zeldovich spectrum, from scaling arguments to computer Simulations …and back again** *Workshop on the Legacy of Ya. B. Zeldovich for Astrophysics and Cosmology*. Lawrence Kansas; May 2-7, 1990.

12. **The Emergence of Classical Behavior** *UBC Workshop on Quantum Cosmology*, Vancouver BC; May 11-12, 1990.

13. **Perturbations from Strings Don't Look Like Strings***! Particles and Fields 91*, Vancouver BC; August 18-22, 1991.

14. **Two perspectives on a decohering *spin*** *Workshop on the Physical Origins of Time Asymmetry* Mazagon Spain, September 30 to October 4 1991.

15. **Structure formation with cosmic strings and *neutrinos*** *The Many Aspects of Neutrino Physics* Fermilab, November 15-17, 1991.

16. **Cosmic structure from cosmic strings** *Theoretical Trends in Particle Physics* sponsored by the Institute of Physics. Kings College London, June 11, 1993.

17. **Dark mater and structure formation** *Dark Matter Workshop*. Imperial College, December 9, 1993.

18. **Quantum Cosmology and Astrophysics** *Birth of the Universe and Fundamental Forces*. Rome, May 18-21, 1994.

19. **Current status of cosmic strings** *American Physical Society DPF meeting on future directions in particle cosmology*. Snowmass CO, July 1994.

20. **Inflation and squeezed quantum states** *American Physical Society DPF meeting on future directions in particle cosmology*. Snowmass CO, July 1994.

21. **The theory of everything vs the theory of anything**. *American Physical Society DPF meeting on future directions in particle cosmology*. Snowmass CO, July 1994.

22. **Coherence and Sakharov Oscillations in the Microwave Sky Microwave Background Anisotropies**. *XXXIst Rencontre de Moriond, Microwave Background Anisotropies* Les Arcs March 1996

23. **Defect Signatures in the Microwave Background** *National Astronomy Meeting.* Liverpool. April 1996

24. **How to falsify scenarios with primordial fluctuations from inflation** *Critical Dialogues in Cosmology: Princeton 250th Anniversary conference,* Princeton, June 1996.

25. **Questions and answers about coherence in the *CMB*** *18th Texas Symposium on Relativistic Astrophysics*. Chicago, December 1996.

26. **Defects and the CMB** *Particle Physics and the Early Universe Conference*. University of Cambridge, April 1997

27. **Cosmic defects and the CMB** *Birth of the Universe II* Rome, May 1997

28. **What is the future of causal models of cosmic structure?** *Cosmo- 97,* Ambleside, September 1997

29. **The cosmic defect story** Review talk at the *1998 Moriond meeting: Fundamental Parameters in Cosmology*, Les Arcs January 1998

30. **New paradigms in active structure formation** *CAPCC 98,* CERN, June 1998

31. **Cosmology with a time varying speed of light** *Cosmo-98,* Asilomar 1998

32. **Cosmology with a time varying speed of light** *19th Texas meeting on relativistic Astrophysics* Paris, December 1998

33. **Varying speed of light as a solution to cosmological problems** *Pritzker Symposium Workshop* Chicago, January 1999

34. **What have cosmic defects taught us about Inflation?** *Pritzker Symposium Workshop* Chicago, January 1999

35. **The use of probabilities in cosmology.** *Inner Space/Outer Space II, David Schramm memorial symposium* Fermilab, May 1999

36. **The current status of defect models of structure formation.** *Inner Space/Outer Space II, David Schramm memorial symposium* Fermilab, May 1999

37. **Irreversibility: from bit to bang.** *Workshop on Complexity, Computation, and the physics of information.* Isaac Newton Institute, Cambridge, July 1999 (Slides)

38. **Review of Cosmic Inflation.** *NATO advanced studies institute on Cosmology*. Isaac Newton Institute, Cambridge, July 1999

39. **Cosmic Coherence and structure formation.** *NATO advanced studies institute on Cosmology*. Isaac Newton Institute, Cambridge, July 1999

40. **A phenomenology of the dark energy without fine tuning.** *NATO advanced studies institute on Cosmology*. Isaac Newton Institute, Cambridge, July 1999

41. **Phenomenology of a realistic accelerating universe using only Planck-scale physics.** *COSMO 99*. Trieste September 1999

42. **Cosmic Acceleration and the Planck Scale** *Cosmic Genesis and Fundamental Physics* Sonoma October 1999

43. **Cosmology with a time-varying speed of light** *Cosmic Genesis and Fundamental Physics* Sonoma October 1999

44. **Cosmic Defects and the future of cosmology** *Cosmic Genesis and Fundamental Physics* Sonoma October 1999

45. **Current Status of Defect models of Cosmic Structure Formation** *PASCOS 99* Granlibakken (December 1999)

46. **Cosmic Acceleration from Planck-Scale *physics*** *Energy Densities in the Universe* Les Arcs, France (January 22-29, 2000)

47. **Using Cosmological Data to Pin Down Planck-Scale Physics** *Way beyond the standard models of particle physics and cosmology*, Aspen (Jan-Feb 2000)

48. **Opportunities to expose the nature of the dark energy with future CMB and m(z) experiments** *Texas Symposium on Relativistic Astrophysics* Austin (Dec 2000)

49. **Characterizing Models of the Dark Energy with SNAP.** *197th Meeting of the American Astronomical Society* San Diego (January 2001).

50. **Cosmic Acceleration and Fundamental Physics**. PASCOS 2001 Chapel Hill (April 2001)

51. **Latest Developments in Cosmology**. PHENO 2001 Symposium Madison (May 2001).

52. **Natural quintessence from large extra dimensions**. M Theory Cosmology, Cambridge UK (August, 2001)

53. **The arrow of time, entropy, and the origins of the Universe.** Symposium in honor John Wheeler's 90th birthday, Princeton (March 2002)

54. **Cosmic Acceleration: Theory and Practice.** APS Division of Particles and Fields annual meeting, Williamsburg VA (May 2002)

55. **Models of Cosmic acceleration.** COSMO-02, Chicago (September 2002)

56. **Inflation, the arrow of time, and theories of initial conditions.** Maryland meeting on Cosmic Structure. University of Maryland, (October 2002)

57. **Introduction to the debate on inflation and alternatives.** National Academy of Sciences Colloquium on Cosmology, Irvine (November 2002) [Albrecht was the moderator of the debate]

58. **Testing Inflation: The next generation.** Carnegie Observatories Centennial Symposium No. 2 "Measuring And Modeling The Universe". Pasadena, CA (November 2002)

59. **Inflation at 22.** The Davis Meeting on Cosmic Inflation, Davis CA (March 2003)

60. **Cosmic acceleration and fundamental physics.** April APS meeting, Philadelphia, PA, 2003

61. **What does it take to compete with inflation? "**The Future Of Cosmology", Oct 10-12,2003, CWRU, Cleveland, OH

62. **Inflation and Causal Patch Physics** "Superstring Cosmology" (Oct 20-24, 2003) KITP, Santa Barbara, CA (see http://online.kitp.ucsb.edu/online/strings03/ for slides and video from talk)

63. **Can the universe afford inflation?** "The Quest for Concordance Cosmology and Beyond" (July 4-17, 2004)

64. **Report from the Dark Energy Task Force** April APS Meeting, Dallas (April 22-25, 2006)

65. **Report from the Dark Energy Task Force** "From Quantum to Cosmos", Airlie, VA (May 22-24, 2006)

66. **Strategies for Learning the Nature of Dark Energy** April meeting of the American Astronomical Society (Calgary, June 4-8 2006)

67. **Current perspectives on Dark Energy Theory** "Particles Strings and Cosmology (PASCOS) (Columbus, September 10-15, 2006)

68. **Probing the Nature of Dark Energy** "The Origins of Dark Energy" (Hamilton Ontario May 2007)

69. **Current Status of Theories of Dark Energy** "Particles Strings and Cosmology" (PASCOS) (London, UK July 2007)

70. **The Clock Ambiguity and the Emergence of Physical Laws** "Everett at 50" (Oxford, UK, July 2007)

71. **The Clock Ambiguity and the Emergence of Physical Laws** "The Origin of Time's Arrow" (New York, October 2007)

72. **What can we learn from future dark energy probes?** "STSI Spring Symposium" (Baltimore, 2008)

73. **The Clock Ambiguity and the Emergence of Physical Laws** "Conference on the Multiverse" (Perimeter Institute, September 2008)

74. **The Clock Ambiguity and the Emergence of Physical Laws** "DICE2008 - From Quantum Mechanics Through Complexity to Spacetime: The Role of Emergent Dynamical Structures" (Castiglioncello, Tuscany, September 2008)

75. **Report from the Joint Dark Energy Mission Figure of Merit Science Working Group** "APS April Meeting" (Denver, May 2009)

76. **Dark Energy: Current Status** "PASCOS 2009" (Hamburg, July 2009)

77. **Challenges for a quantum theory of the Universe** "FQXI 2nd International Conference" (Ponta Delgada, Spain, July 2009)

78. **Challenges for a quantum theory of the Universe** "Conference on Holographic Cosmology" (Waterloo, July 2009)

79. **Cosmic Acceleration: Current theoretical issues and progress toward future observations** "Galileo-Xu Guangqui Meeting" (Shanghai, October 2009)

80. **Challenges for Inflation:** "Princeton workshop on Cosmic Inflation" (Princeton, January 2011)

81. **Panelist** "Experimental and Theoretical Challenges to Probing Dark Energy" (Palo Alto December 2011)

82. **New Results from de Sitter Equilibrium Cosmology** "Return of de Sitter" (Stockholm, Feb-March 2011)

83. **Panelist: Dark Energy** "Experiments on the Cosmic Frontier: Astrophysical Studies of Matter, Energy, Space and Time" (Fermilab, March 2011)

84. **Infinity, Finiteness and Inflationary Cosmology** "Challenges for Early Universe Cosmology" (Waterloo, July 2011) *Available online at http://pirsa.org/11070039/*

85. **Dynamics, typicality and the arrow of time "**Setting Time Aright" (Bergen, Copenhagen and points in-between, Aug 27-Sep 2 2011) Available online here

86. **Time, Infinity and Inflation** "Inflationary Theory and its Confrontation with Data in the Planck Era", (Aspen, Feb 2012)

87. **Cosmology vs. Equilibrium** "Physics with a Positive Cosmological Constant" (Penn State, May 2012) Available online here

88. **Panelist** "Mining the Cosmic Frontier at the Planck Era" Davis, May, 2013

89. **Challenges for Theoretical Cosmology** "Fundamental Questions in Cosmology" Davis, May 2013.

90. **Lectures on Cosmic Inflation** "Les Houches School on Post-Planck Cosmology", Les Houches, July-Aug 2013 (slides posted here)

91. **New results on probabilities and measures for eternal inflation** "Cosmology After Planck", Ann Arbor, September 2013.

92. **Origin of probabilities and their application to the multiverse "**FQXi 4th international Conference" Vieques Island, Puerto Rico, January 2014

93. **Finite Inflation** "Searching for Simplicity" Princeton, NJ, May 2014

94. **Origin of probabilities and their application to the multiverse "**DICE 2014 Conference" Castillgioncello, Italy September 2014

95. **Origin of probabilities and their application to the multiverse** The Spacetime Odyssey continues Stockholm, June 2015 (Slides)

96. **Panel discussion of Open Skies/Open Data** IAU General Assembly, Honolulu, Aug 2015

97. **Inflation Tuning and Measures** CosmoCruise, Barcelona, Sep 2015 (Slides)

98. **Some provocative comments on emergent time** Time in Cosmology, Waterloo June 2016

99. **What Exists Panel Discussion** FQXi Conference, Banff August 2016

100. **Reflections on Cosmic Inflation**, Cosmological Quests for the Next Decade, Korea Cosmology and Space Sciences Institute, April 2017

101. **Cosmic Inflation, Reflections on Motivations, Accomplishments and Future Opportunities,** Advances in Theoretical Cosmology in Light of Data, NORDITA July 21, 2017, Stockholm

102. **The arrow of time in cosmology, cosmic inflation and the emergence of classicality** Simons Program: Quantum Information in Cosmology, April 2018, Copenhagen (Video)

103. **Cosmic Inflation Tutorial** Simons Program: Quantum Information in Cosmology, April 2018, Copenhagen (slides and video)

104. **The case of inflation in cosmology** Seven Pines Symposium XXII "What Counts as Evidence?" May 16–20, 2018 Stillwater MN

105. **What is cosmic inflation?** Quantum Universe Symposium November 2018 CECs, Valdivia Chile

106. **Decoherence, einselection and equilibrium in an adapted Caldeira-Leggett model.** Workshop on quantum entanglement in cosmology, PIMU, Tokyo May 2019.

107. **The arrow of time in a stationary quantum state,** 2019 FQXi meeting, Barga Italy July 2019

108. **Review of approaches to the initial state of the universe** A mathematical home for our out-of-equilibrium world, NBIA, Copenhagen Oct 2019

109. **The arrow of time in a stationery quantum state,** A mathematical home for our out-of-equilibrium world, NBIA, Copenhagen Oct 2019

110. **Quantum-to-classical transition of the primordial perturbations,** Physics of the early Universe – an online precursor ICTS, Aug/Sep 2020. Video here

111. **Classical from quantum and time's arrow** BASICS 2023 UCSC Sep 2023