

A 501 (C) (3) Non-Profit Organization http://www.mvjs.org

Corporate Background

Founded in 2006 to advance research & communications in the field of Theoretical Physics & Cosmology.

Multiversal Journeys is a 501(c) (3) non-profit organization. Our non-profit educational status is also approved by the state of California under section 23701d.

Our Mission

To advance research and raise public awareness & interest in Theoretical Physics and Cosmology



Sources of Funding

1. Grants – Private Foundations

FQXi (Foundational Questions in Physics & Cosmology Institute):

http://fqxi.org/grants/

2. Grants - US Government

NSF (National Science Foundations) Dept. of Education

3. Corporate Donations

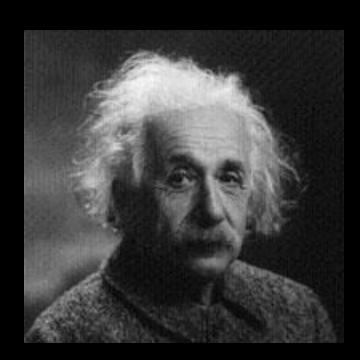
Donations to Multiversal Journeys are deductible to the maximum extent permitted by the laws

Charter

Research in leading edge concepts in Theoretical Physics & Cosmology.

Educating the public in the latest discoveries in Theoretical Physics and Cosmology in a non-technical language.

Lecture Series
Panel Discussions
Book Series
Production of Documentaries/Films



Scope

Multiversal Journeys Presents

"Theoretical Physics Made Easy for the Public"

- Mysteries of Quantum Physics
- Relativity
- Latest Theories in Cosmology
- String Theories
- Nature of Space-Time
- Theory of Everything
- Time Travel



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Advisory BoardsScientific Advisory Board

- Professor Fred Adams University of Michigan, Ann Arbor
- Professor Yasunori Nomura University of California, Berkeley;
 Director of Berkeley Center for Theoretical Physics
- Professor John Terning UC Davis

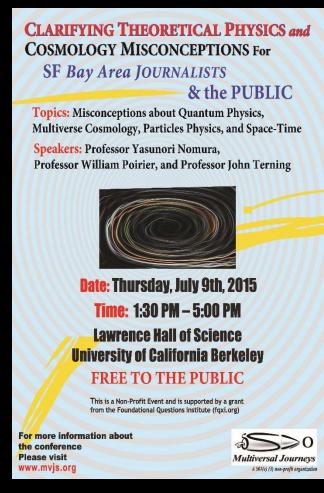
Book Series Advisory Board

- Professor Thomas Buchert University Claude Bernard in Lyon, France
- Professor Lawrence M. Krauss, Arizona State University, Tempe, AZ
- Professor Mark Trodden, University of Pennsylvania, Philadelphia, PA

Conferences - UC Berkeley, CA

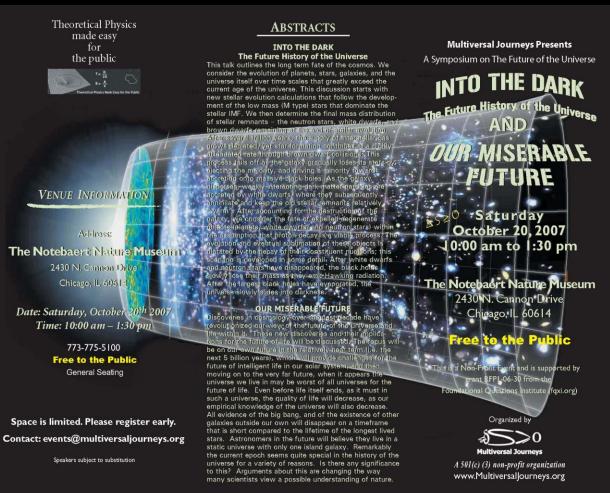
Clarifying Theoretical Physics & Cosmology Misconceptions Lawrence Hall of Science

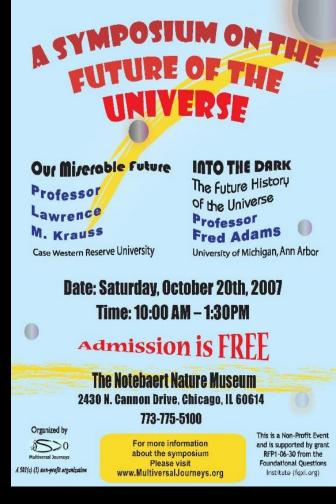




Conferences - Notebaert Nature Museum; Chicago, IL

A Symposium on the Future of the Universe The Chicago Academy of Sciences





Conferences - Cambridge, MA

General Relativity, Going Strong at 92: Time Travel and Dark Energy



ABSTRACTS

Is time travel possible?

Einstein's General Relativity tells us that space and time together form a 4-dimensional spacetime that is curved by the presence of matter and energy. If we could produce the proper state of matter and energy, the spacetime could curve enough the past. But ordinary forms cient. Instead we would negative energy dens possibility of time travel depends on wheth tum mechanics can provide us with the prop tive-energy-density state. The lecture w e or proving that it is impossible to ing a time i elated issues of wormholes and do so, and nt travel. Time-travel ideas related to quantun hanical correlations and tunneling of a h a barrier will be briefly discussed.

Einstein's Biggest Blunder? A Cosmic Mystery Story

In 191 completed his General Relativity. This laid the t for our unde motion of of the univers Einstein's theory problem, he added an addition the so-called "Cosmological Constant". Within decade however, observations indicated that such term was not necessary to obtain agreement with observations, and Einstein called this addition his "biggest blunder"

Over the past decade, new observations have led to a revolution in cosmology. The standard model of cosmology built up over a 20 year period up until the early 1990's is now dead, its replacement may be far more bizarre. In particular, new data from a wide variety of independent cosmological and astrophysical observations, combine together to strongly suggest most of the energy density of the universe today may be contained in empty space! Remarkably, this is exactly what one would expect if Einstein's Cosmological Constant really exists! If it does, its origin is the biggest mystery in physics. The discussion will end by briefly describing possible implications for our understanding of nature, for physics, and for life, of this astounding new result.

General Relativity Going Strong at 92.

> Time Travel and Dark Energy

Saturday **September 15, 2007** 1:00 p.m. to 4:30 p.m

38 Cameron Gallery

38 Cameron Avenue Cambridge, MA 02140 www.38cameron.com

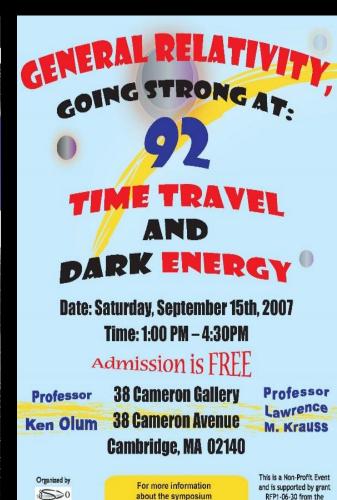
Free to the Public

This is a Non-Profit Event and is supported by grant RFP1-06-30 from the Foundational Questions Institute (faxi.org)

Organized by



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Please visit

www.MultiversalJourneys.org

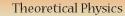
RFP1-06-30 from the

Foundational Questions

Institute (faxi.org)

Conferences - UCLA, Los Angeles, CA

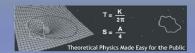
It's About Time: The Concept of Time, Cosmology and the Latest Theory about Time



made easy

for

the public



VENUE & TICKET INFORMATION

Address
Hillel at UCLA
574 Hilgard Avenue
Los Angeles, CA 90024

Date: Sunday, July 29th 2007 Time: 1:00 PM – 4:30 PM

> Ticket information: http://www.ticketweb.com

TICKET WEB

866-468-3399 Admission: \$5 General Seating

For more information about the Symposium please visit: http://www.MultiversalJourneys.org

Speakers subject to substitution

ABSTRACTS

The Beginning and End of Time: Life, The Universe, and Nothing

One can consider measuring time by the number of events that occur within some period. In this sense, more happened in the first second in the history of the universe than has occurred in the history of the universe since that moment. The first part of the lecture highlights some of the major milestones in that initial moment, and then moves on to discuss the future. Our current observations suggest we live in the worst of all universes for the long term future of life, and that our knowledge about the state of the universe will continue to decrease with time. In the far future we will be alone in a largely dark and empty universes.

Two-Time Physics: The Unified View From Higher Dimensional Space and Time

Evidence has been gathering that the ordinary formulation of physics, in a space-time with three space and one time dimensions, is insufficient to describe our world, just like shadows on walls alone are insufficient to capture the true essence of an object in a three dimensional room. Two-Time Physics reveals that our physical world in 3+1 dimensions is like a shadow of a highly symmetric universe in four space and two time dimensions. Amazingly, the best understood fundamental theory in Physics, the Standard Model of Particles and Forces is reproduced, and its "strong CP problem" is solved, as a field theory in 4+2 dimensions in the context of Two-Time Physics. This point of view provides new mathematical tools and new insights for understanding our universe. Evidence of the 4+2 dimensional world can be found both at the macroscopic and microscopic scales in the form of hidden symmetries and "dualities", and such predictions of Two-Time Physics can be tested through theory and experiment. Two-Time Physics may assist in the quest to unify the Standard Model with Einstein's theory of General Relativity in a single unified theory. The most popular approach to that problem today, superstring theory, and its extension M theory, invoke 10 dimensions of space, but a single dimension of time. The path to success with formulating M theory, which so far eluded theoretical physicists, could well be adopting the more symmetric and higher dimensional Two-Time Physics approach. This would require adding one time dimension plus one space dimension, giving nature 11 space and two time dimensions. The Two-Time Physics version of M theory would have a total of 13

It's About Time:

The Concept of Time.

Cosmology and the

Latest Theory about

Time.

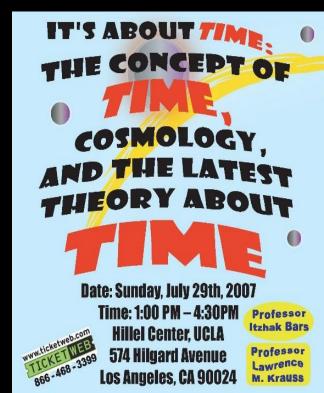
Sunday, July 29 2007 Hillel Center, UCLA 574 Hillgard Avenue Los Angeles, CA 90024

This is a Non-Profit Event and is supported by grant RFP1-06-30 from the Foundational Questions Institute (fqxi.org)

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For more information

about the symposium

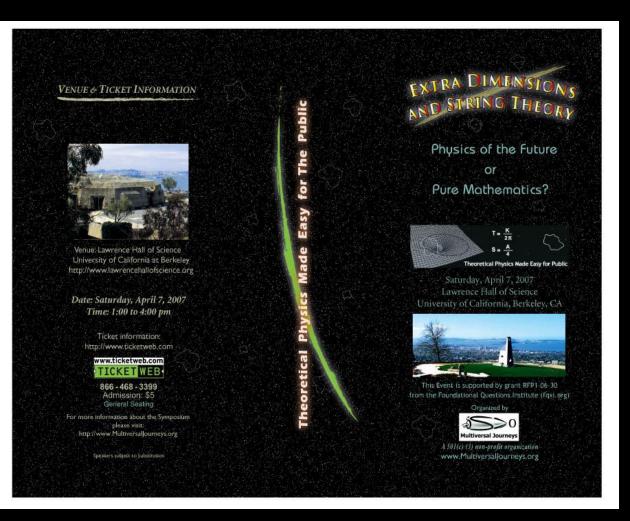
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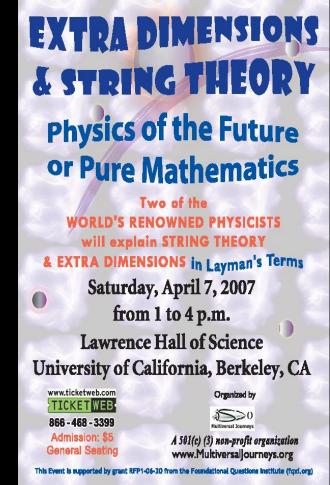


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Conferences - UC Berkeley, CA

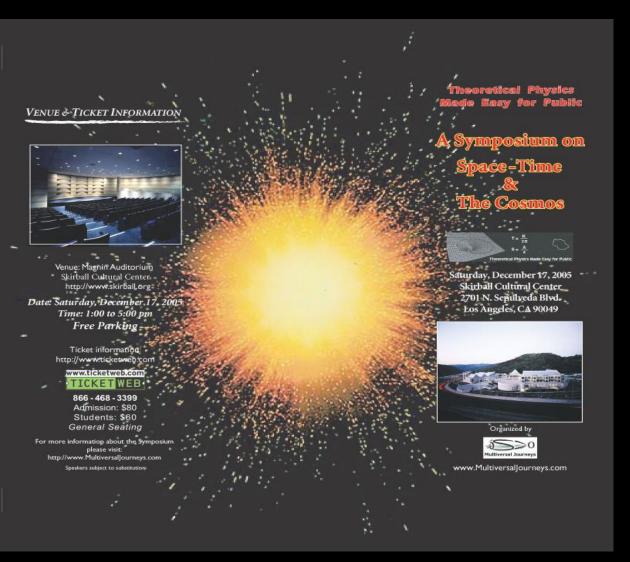
Extra Dimensions and String Theory: Physics of the Future or Pure Mathematics?





Conferences - Skirball Museum, LA, CA

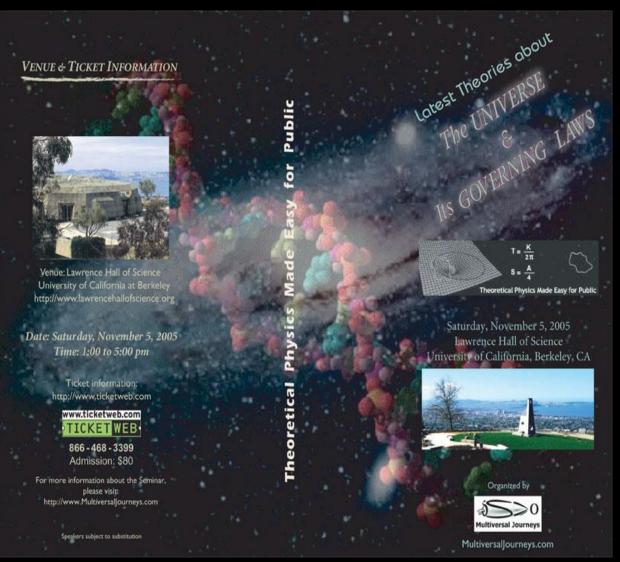
Space-Time & the Cosmos

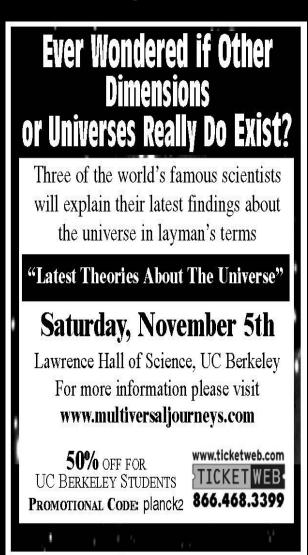




Conferences - UC Berkeley, CA

Latest Theories about the Universe & Its Governing Laws





Speakers

Our speakers are some of the world's renowned physicists:

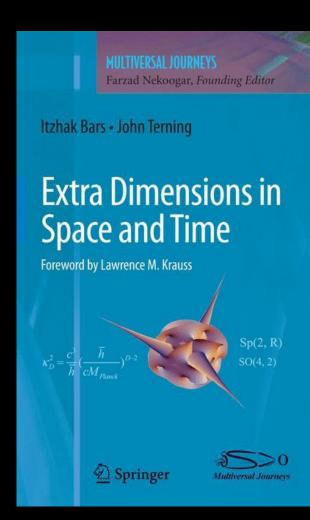
- Professor Fred Adams University of Michigan, Ann Arbor, MI
- Professor Anthony Aguirre University of California, Santa Cruz, CA
- Professor Itzhak Bars University of Southern California, Los Angeles, CA
- Professor Raphael Bousso University of California, Berkeley, CA
- Professor Sean Carroll California Institute of Technology, Pasadena, CA
- Professor Gary T. Horowitz University of California, Santa Barbara, CA
- Professor Lawrence M. Krauss Origins Initiative, ASU
- Professor Yasunori Nomura University of California, Berkeley, CA
- Professor Ken Olum Tufts University, Medford, MA
- Professor L. William Poirier Texas Tech University
- Professor John Terning University of California, Davis, CA
- Professor Ken Wharton San Jose State University, San Jose, CA

Book Series

The inspiring books in this series are designed for scientifically literate non-specialists who want to know the latest discoveries in Theoretical Physics and Cosmology in a non-technical language.

Multiversal Journeys-book series are published with Springer (http://www.springer.com), a world wide leader in scientific publishing:

http://www.springer.com/series/7919



Book Series

Topics:

Mysteries of Quantum Mechanics
Latest theories in Cosmology
String Theories
Nature of Space-Time
Theory of Everything
Extra Dimensions
Misconceptions in Theoretical Physics

Books Published

Extra Dimensions in Space and Time

Bars, Itzhak; Terning, John; Nekoogar, Farzad (Founding Ed.)

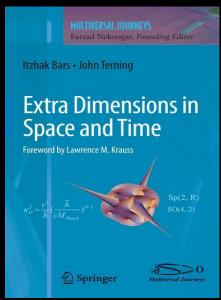
Cosmic Update Dark Puzzles. Arrow of Time. Future History

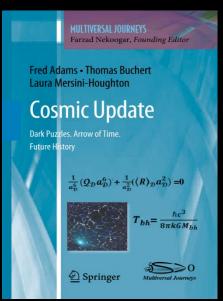
Adams, Fred; Buchert, Thomas; Mersini-Houghton, Laura; Nekoogar, Farzad (Founding Ed.)

Quantum Physics, Mini Black Holes, and the Multiverse:

Debunking Common Misconceptions in Theoretical Physics (to be published in 2017)

http://www.springer.com/series/7919?detailsPage=titles





Authors

- Professor Fred Adams University of Michigan, Ann Arbor
- Professor Itzhak Bars University of Southern California, Los Angeles
- Professor Thomas Buchert The University Claude Bernard in Lyon, France
- Professor Laura Mersini-Houghton UNC-Chapel Hill
- Professor Yasunori Nomura University of California, Berkeley
- Professor L. William Poirier Texas Tech University
- Professor John Terning University of California, Davis

Production of Documentary Films

Collaborating with top media production companies to develop documentaries about Theoretical Physics & Cosmology topics.

Two short documentaries about Misconceptions in Theoretical Physics on the YouTube:

Misconceptions about LHC Part-1

Misconceptions about LHC Part-2





Production of Documentary Films

Physics of the Observer – A Documentary (to be released in 2017)

Two documentaries about the Multiverse on the YouTube:

The Multiverse Part 1: Introduction & Misconceptions

The Multiverse - Part 2





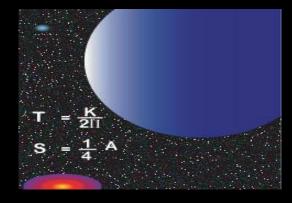
DVDs Produced

The Beginning and End of Time: Life, the Universe, and Nothing Prof. Lawrence M. Krauss

The Nature of Space and Time Prof. Gary T. Horowitz

Two-Time Physics: The Unified View from Higher Dimensional Space and Time Prof. Itzhak Bars



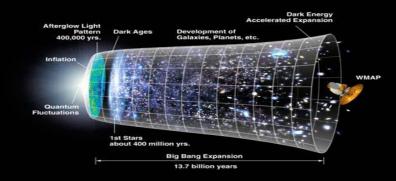




DVDs Produced (cont'd)

The Future History of the Universe Prof. Fred C. Adams

Is time travel possible? Prof. Ken Olum





Contact Multiversal Journeys

By mail:

Multiversal Journeys or 17328 Ventura Blvd, #155 Encino, CA 91316 Multiversal Journeys 773 E El Camino Real #167 Sunnyvale, CA 94087

By phone: 818-935-0466

By web: http://www.mvjs.org/

By eMail: info@mvjs.org

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Ways to DONATE today:

If you are interested in our work and consider a donation to our cause, there are several ways to help us:

-Via our website (by credit card/debit card/PP):

http://www.mvjs.org/donate/

-Via PayPal Giving Fund (by credit card/debit card/PP):

https://www.paypal.com/fundraiser/charity/1494184

-Via mail (by check):

Multiversal Journeys

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Encino, CA 91316

or Multiversal Journeys

773 E El Camino Real #167

Sunnyvale, CA 94087

 -Via Amazon Smile (Amazon donates a portion of your orders to our charity, NO COSTS FOR YOU!)

Log into $\underline{\text{https://smile.amazon.com}}$, go to "Your Account" \to "Change your charity" \to Type "Multiversal Journeys" & order all your goods!

Disclaimer:

Our organization is a tax-exempt public charity and donations to *Multiversal Journeys* are deductible to the maximum extent permitted by law.

Once you provide your email during the payment, the payment processing company (PayPal) will send you a receipt for your donation. Please provide your return address, if you send us a check and need a paper receipt.

If you wish additional documentation for your donation to *Multiversal Journeys*; please request it explicitly under "Optional instructions to MVJS".



Thank You