This guide is intended to enhance understanding of this event which features a multimedia concert by a composer and a NASA physicist, followed by a panel with them and USC faculty members.

**Einstein's Cosmic Messengers**

Visions and Voices

Friday, October 22, 2010 : 8:00pm

University of Southern California

University Park Campus

Bovard Auditorium (ADM)

Admission is free.

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**Gravitational Waves Defined**

The news site Science Daily defines a gravitational wave as: "a fluctuation in the curvature of space-time which propagates as a wave, traveling outward from a moving object or system of objects."

The articles goes on to note: "Gravitational radiation is the energy transported by these waves. Important examples of systems which emit gravitational waves are binary star systems, where the two stars in the binary are white dwarfs, neutron stars, or black holes. Although gravitational radiation has not yet been directly detected, it has been indirectly shown to exist."

The Universe Today blog noted in 2008: "Gravitational waves are predicted by Einstein's 1916 General Theory of Relativity, but they are notoriously hard to detect and it's taken many decades to come close to observing them."
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Selected Relevant Books - incl. Prof. Cole's

- **Relativity: the special and the general theory** by Albert Einstein, 1879-1955
  - ISBN: 0143039822

- **Traveling at the speed of thought: Einstein and the quest for gravitational waves** by Daniel Kennifick
  - Call Number: Doheny Library: QC179.K46 2007x
  - ISBN: 0691117276

- **Gravitational waves. Vol. 1, Theory and experiments** by Michele Maggiore
  - Call Number: Science & Engineering Library: QC179.M34 2008
  - ISBN: 0198570740

- **Mind over matter: conversations with the cosmos** by K.C. Cole
  - Call Number: Doheny Library: Q162.C584 2003
  - ISBN: 0151008167

- **The hole in the universe: how scientists peered over the edge of emptiness and found everything** by K.C. Cole
  - ISBN: 015100398X

Comments (0)

Try searching "gravitational waves" as a phrase

Search USC's Homer Catalog:

![Search](http://libguides.usc.edu/content.php?pid=137209&sid=1175062)

Also use "Gravitational waves" as a phrase here for a range of results

Search Ebrary and NetLibrary for online books:

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Know some more relevant titles the Library should purchase?

Please use our Recommend-a-Book Service, here:

![Recommend-a-Book](http://libguides.usc.edu/content.php?pid=137209&sid=1175062)
Links to some of Professor Vallisneri’s Works

http://dx.doi.org/10.1088/0264-9381/27/8/084009

http://dx.doi.org/10.10113/PhysRevD.81.024004

http://dx.doi.org/10.1103/PhysRevD.78.042002

http://dx.doi.org/10.1088/0264-9381/25/6/065005

http://dx.doi.org/10.1103/PhysRevD.77.062004

All of these citations were found cited in the Inspec Database, to which USC subscribes on the Engineering Village 2 platform.

Comments (0)

Links to Some of Professor Pierpaoli’s Works

http://dx.doi.org/10.1117/12.857423

http://dx.doi.org/10.1103/PhysRevD.74.103502

http://dx.doi.org/10.1103/PhysRevLett.97.021301

http://dx.doi.org/10.1111/j.1365-2966.2006.10408.x

http://dx.doi.org/10.1103/PhysRevLett.95.101302

All of these citations were found cited in the Inspec Database, to which USC subscribes on the Engineering Village 2 platform.

Comments (0)
Einstein's Cosmic Messengers - Visions & Voices Event

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The Project!

Andrea Centazzo: Einstein's Cosmic Messengers (excerpts) from Michele Vallisneri on Vimeo.

A definition of gravitational waves (incl. commercial)

What are gravitational waves

Comments (0)