

E. Sterl Phinney

Curriculum Vitae

Education:

Cambridge University (U.K.)
PhD (Theoretical Astrophysics): 1983
California Institute of Technology
B.S. (Astronomy) : 1980

Employment:

California Institute of Technology:
Professor of Theoretical Astrophysics (1995–),
Associate Professor of Theoretical Astrophysics (1991–95),
Assistant Professor of Theoretical Astrophysics (1985–90),
The Institute for Advanced Study, Princeton:
Member with Long–Term Appointment (1983–85)

Awards and Memberships:

Salpeter Lectureship, Cornell University (1999)
ASCIT Excellence in Teaching Award (1999)
Warner Prize of the American Astronomical Society (1995)
Alfred P. Sloan Foundation Research Fellow (1990–94)
Presidential Young Investigator (1985–1990)
Marshall Scholarship (1980–1983)
Fellow: American Physical Society, Royal Astronomical Society.
Member: American Astronomical Society

Recent Professional Activities:

Member, national Astronomy and Astrophysics Advisory Committee (2005–)
Member, NASA Universe Exploration Strategic Roadmap Committee (2005)
Chairman, Astronomy & Astrophysics Panel of the NAS/NRC Committee on
Priorities in Space Science Enabled by Nuclear Power and Propulsion (2004–5)
Chairman, NASA OSS/SEU Strategic Plan Roadmap Team (2001–2003)
Member, NASA Structure and Evolution of the Universe Subcommittee (SEUS)
(2000–3)
Member, NASA SPIDR Technology Assessment Team (2002–2003)
Chairman, LISA Sources and Data Analysis Working Group (2001–)
Member, LISA International Science Team (‘LIST’) (2001–)
Chairman, LISA Mission Definition Team (1997–2001)

Current Research Interests:

Astrophysical sources of gravitational radiation. Gravitational wave detection from space and its future. Pulsar physics. Physics around black holes. Tidal interactions of binary white dwarfs.

Most Relevant Recent Publications, E.S. Phinney¹:

1. Phinney, E.S. 2002, *Science Requirements for LISA*, available at <http://www.its.caltech.edu/~esp/lisa/LISTwg1.req-pr.pdf>.
2. Phinney, E.S. et al 2003 *Beyond Einstein: from the Big Bang to black holes*, NASA Publication NP-2002-10-510-GSFC. available at <http://universe.gsfc.nasa.gov/be/roadmap.html>
3. Phinney, E.S. 2003, *Mon. Not. Roy. Astr. Soc.* in press [[astro-ph/0108028](#)] “A Practical Theorem on Gravitational Wave Backgrounds”
4. Farmer, A.J. & Phinney, E.S. 2003, *Mon. Not. Roy. Astr. Soc.*, 346, 1197 [[astro-ph/0304393](#)] “The Gravitational Wave Background from Cosmological Compact Binaries”
5. Gair, J.R. et al 2004 *Class. Quant. Grav.* 21, S1595 [[gr-qc/0405137](#)] “Event rate estimates for LISA extreme mass ratio capture sources” Presentation and longer white paper distributed to LIST available at http://www.srl.caltech.edu/lisa/talks/phinney_wg1_dec03.pdf <http://www.vallis.org/publications/LISTEMRIreport.pdf>
6. Kobayashi, S., Laguna, P., Phinney, E.S. & Meszaros, P. 2004 *Ap. J.* 615, 855 [[astro-ph/0404173](#)] “Gravitational Wave and X-ray Signals from Stellar Disruption by a Massive Black Hole”
7. Milosavljević, M. & Phinney, E.S. 2004, *Ap. J.* 622, L93 [[astro-ph/0410343](#)] “The Afterglow of Massive Black Hole Coalescence”

¹ red hyperlinks are active in this pdf file.