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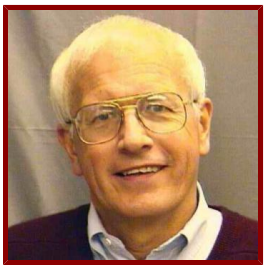

Robert Wagoner

Professor of Physics, Emeritus

CONTACT INFORMATION

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Bio

BIO

Robert V. Wagoner's scientific direction was established rather suddenly in 1960, when he attended a series of lectures on cosmology by the British astrophysicist Fred Hoyle. At the time, Wagoner was a mechanical engineering undergraduate at Cornell University, receiving his B.M.E. in 1961. Born and raised in Teaneck, New Jersey, his other major interest was golf, leading to a position on the Cornell team. He switched to physics while at Stanford University, receiving an M.S. in engineering science in 1962 and a Ph.D. in physics in 1965. He then worked as a postdoctoral fellow at Caltech, collaborating with William A. Fowler and Hoyle on the first complete calculation of the abundances of the elements produced in the primordial universe. After three years, he returned to Cornell as a faculty member in the astronomy department. Five years later, he returned to Stanford's physics department, where he is a professor of physics, emeritus and a member of the Kavli Institute for Particle Astrophysics and Cosmology.

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Physics

HONORS AND AWARDS

- Visiting Fellow, Institute of Theoretical Astronomy, Cambridge University (1967, 1971)
- George Ellery Hale Distinguished Visiting Professor, University of Chicago (1978)
- Sherman Fairchild Distinguished Scholar, Caltech (1976)
- Fellowship, Guggenheim Foundation (1978)
- Fellowship, A.P. Sloan Foundation (1969)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Fellow, American Physical Society (1965 - present)
- Member, American Astronomical Society (1966 - present)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Probes (accretion disks, ...) of black holes, sources and detectors of gravitational radiation, theories of gravitation, anthropic cosmological principle.

Publications

PUBLICATIONS

- **Expanding ejecta method: mapping supernova morphology with intensity interferometry** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*
  Chen, I., Dunsky, D., Van Tilburg, K., Huang, J., Wagoner, R.
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- **Search for quasi-periodic oscillations in TESS light curves of bright Fermi Blazars** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
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  Smith, K., Tandon, C. R., Wagoner, R. V.
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- **10.3847/2515-5172/ac3d94** *Why have the observed high-frequency QPOs not been produced by (MHD) computer simulations of black hole accretion disks?*
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- **Evidence for an Optical Low-frequency Quasi-periodic Oscillation in the Kepler Light Curve of an Active Galaxy** *The Astrophysical Journal*
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- **DO MAGNETIC FIELDS DESTROY BLACK HOLE ACCRETION DISK g-MODES?** *ASTROPHYSICAL JOURNAL*
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- **DISKOSEISMOLOGY AND QPOs CONFRONT BLACK HOLE SPIN** *ASTROPHYSICAL JOURNAL LETTERS*
  Wagoner, R. V.
  2012; 752 (2)
- **A subhorizon framework for probing the relationship between the cosmological matter distribution and metric perturbations** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Amin, M. A., Wagoner, R. V., Blandford, R. D.
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- **Corotation resonance and diskoseismology modes of black hole accretion disks** *ASTROPHYSICAL JOURNAL*
  Silbergleit, A. S., Wagoner, R. V.
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- **Relativistic and Newtonian diskoseismology** *Conference on Jean-Pierre Lasota, X-Ray Binaries, Accretion Disks and Compact Stars*
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- **Relativistic diskoseismology. III. Low-frequency fundamental p-modes** *ASTROPHYSICAL JOURNAL*
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  Silbergleit, A. S., Wagoner, R. V., Ortega-Rodriguez, M.
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- **Gravitational radiation evolution of accreting neutron stars** *20th Texas Symposium on Relativistic Astrophysics*
  Wagoner, R. V., Hennawi, J. F., Liu, J. S.
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- **On the perturbations of viscous rotating Newtonian fluids (vol 537, pg 922, 2000)** *ASTROPHYSICAL JOURNAL*
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- **On the perturbations of viscous rotating Newtonian fluids** *ASTROPHYSICAL JOURNAL*
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