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)

LINKS
• My Personal Website: https://web.stanford.edu/dept/physics/people/faculty/wagoner_robert-%20-%20Copy.html

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

- **Order out of Randomness: Self-Organization Processes in Astrophysics** *SPACE SCIENCE REVIEWS*
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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*
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- **A subhorizon framework for probing the relationship between the cosmological matter distribution and metric perturbations** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
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- **Astronomy - Heartbeats of a neutron star** *NATURE*
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- **Relativistic diskoseismology. III. Low-frequency fundamental p-modes** *ASTROPHYSICAL JOURNAL*
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Robert Wagoner

http://cap.stanford.edu/profiles/Robert_Wagoner/

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