

J.R. Jokipii

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Education:

1961 - B.S. (honors) University of Michigan, Ann Arbor
1965 - Ph.D. California Institute of Technology

Areas of Research:

Cosmic-ray astrophysics, in solar wind and galaxy. Solar, heliospheric and astrophysical plasma physics.

Positions Held:

1965-1967, Research Associate, University of Chicago;
1967-1969, Assistant Professor of Physics, University of Chicago;
1969, Visitor, Max-Planck Institut für Extraterrestrische Physik, Garching, West Germany;
1969-1973, Associate Associate Professor of Theoretical Physics, California Institute of Technology;
1975-1981, Associate Department Head, Department of Planetary Science, University of Arizona;
1983-1992, Founding Chair, Theoretical Astrophysics Program, University of Arizona;
1974-1997, Professor, Planetary Sciences and Astronomy, University of Arizona;
1997-present, Regents' Professor, Planetary Sciences and Astronomy, University of Arizona;

Service

Many NASA, NSF and NAS committees over 4 decades.
Interview Panel for the Vietnam Education Foundation to interview scholars in Vietnam for study in the United States
Currently, Chair, Physical Sciences of the Associates Program of the National Academy of Sciences-National Research Council

Awards:

Elected Einstein Professor of the Chinese Academy of Sciences, 2014.

Elected Lifetime National Associate of the U. S. National Research Council, 2008.

Elected to the U. S. National Academy of Sciences in 2001.

Elected to the International Academy of Astronautics, 2000.

Awarded an Einstein Professorship by the Chinese Academy of Sciences, 2014

Named Fellow of American Physical Society.

Named Fellow of the American Geophysical Union.

Awarded Excellence in refereeing from AGU, 2000.

Phi Beta Kappa, Phi Kappa Phi, Woodrow Wilson Fellow, Alfred P. Sloan Fellow.

Selected recent Publications:

- “Interpretation of the Disturbance in Galactic Cosmic Rays Observed on Voyager 1 beyond the Heliopause”,
J. R. Jokipii and Jozsef Kóta, Ap. J. Letters, 794, Issue1, article id L4, 2014.
- “Are Cosmic Rays Modulated beyond the Heliopause?”,
J. Kóta and J. R. Jokipii, Ap. J., 782, Issue 1, article id 24, 2014.
- “The Longitudinal Spread of Energetic Ions from Impulsive Flares in Interplanetary Space”,
J. Giacalone and J. R. Jokipii, Ap. J., 751, L33, 2012.
- “The Acceleration Mechanism of Anomalous Cosmic Rays”,
J. Giacalone, J. Drake and J. R. Jokipii, Sp. Sci. Rev., 173, 283, 2012.
- “Compression Acceleration in Astrophysical Plasmas and the Production of $f(v) \propto v^{-5}$ Spectra in the Heliosphere”, J. R. Jokipii and M. A. Lee, Ap. J., 713, 475, 2010.
- “The Heliospheric Magnetic Field and Its Extension to the Inner Heliosheath”,
A. Balogh and J. R. Jokipii, Sp. Sci. Rev., 143, 85, 2009.
- “A Shock for Voyager 2”, J. R. Jokipii, Nature, 454, 38, 2008.
- “Energetic Particle Intensities and Anisotropies near the Solar Wind Termination Shock”,
J. Giacalone and J. R. Jokipii, Astrophys. J. Lett, 649, L137, 2006.
- “The Magnetic Field Structure in the Heliosheath”, J. R. Jokipii, Astrophys. J., Lett, 631, L163, 2005.