



High-Energy Radiation from Magnetized Neutron Stars (Theoretical Astrophysics)

By Peter Mészáros

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Neutron stars, the most extreme state of matter yet confirmed, are responsible for much of the high-energy radiation detected in the universe. Mészáros provides a general overview of the physics of magnetized neutron stars, discusses in detail the radiation processes and transport properties relevant to the production and propagation of high-energy radiation in the outer layers of these objects, and reviews the observational properties and theoretical models of various types of neutron star sources.

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Editorial Review

About the Author

Peter Mészáros is professor of astronomy and astrophysics at Pennsylvania State University. A theoretical astrophysicist specializing in the fields of high-energy astrophysics and cosmology. He has contributed more than a hundred papers to the literature and has been at the forefront of theoretical developments in the radiative properties of magnetized neutron stars since the first cyclotron line measurements were made in 1977.

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