



Stars as Laboratories for Fundamental Physics: The Astrophysics of Neutrinos, Axions, and Other Weakly Interacting Particles (Theoretical Astrophysics)

By Georg G. Raffelt

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Raffelt presents the many uses of stellar astrophysics for research in basic particle physics. He focuses primarily on the properties and nongravitational interactions of elementary particles. Numerous graphs and figures complement the text.

Stars as Laboratories for Fundamental Physics is a valuable reference for cosmologists, astrophysicists, and particle physicists.

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Editorial Review

From the Back Cover

In this volume, Raffelt provides the first systematic review of what we know about these and other weakly interacting particles, and about gravity, from the observed properties of stars, such as neutrino fluxes measured from the Sun and supernova 1987A, and from certain astronomical x-and gamma-ray observations.

About the Author

Georg G. Raffelt is a staff scientist in the Theory Group at the Max-Planck-Institute for Physics in Munich, and is a receiving editor for the journal *Astroparticle Physics*.

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