

"The Nature of Gravitational Collapse"

Book Information

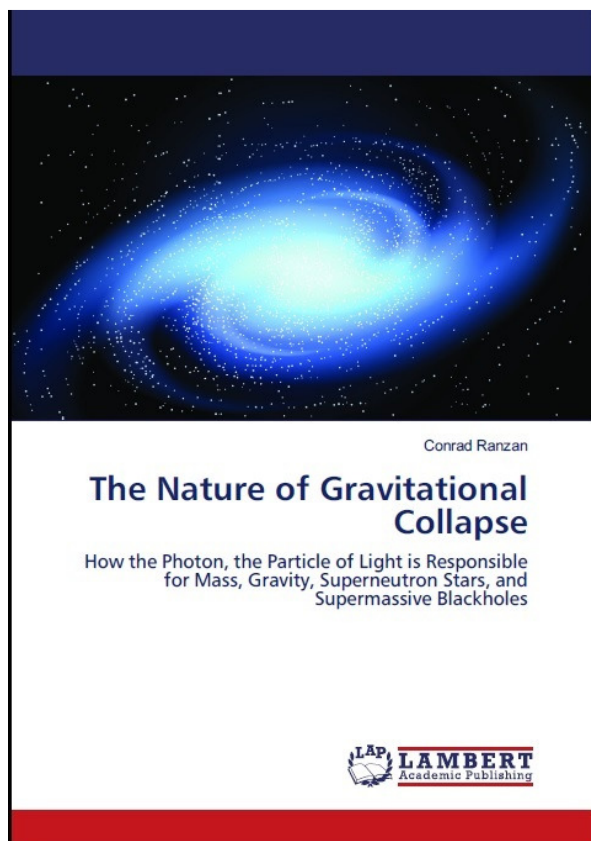
Subtitle: How the photon, the particle of light, is responsible for mass, gravity, superneutron stars, and supermassive black holes

Author: by Conrad Ranzan (www.CellularUniverse.org)

The truly amazing story of how the photon is linked to gravitational collapse — intimately connected through its primary role in the veritable cause of gravitation.

Highlights:

- Another major success for DSSU theory, as it reveals some amazing new insights! The main headliner is the “discovery” of the mechanism by which mass undergoes a total conversion to energy —mass to energy conversion with unequivocal 100% efficiency! The theory has uncovered the source mechanism of cosmic gamma particles! As everything else in the DSSU, it is a perfectly natural process. Truly amazing!
- It is explained how the photon is responsible for matter, gravity, and Superneutron Stars (what astro-scientists mistakenly call *stellar black holes*). A perfectly natural explanation with no breakdown of physical law, no infinite-density speculations, no singularity.
- For the first time in the history of astrophysics, the new spectral shift mechanism has been applied to black hole physics —making this the second application of the *velocity differential spectral shift* since the phenomenon entered the scientific literature in 2014.
- The Book mitigates a historical tangle of conflicting ideas —the misunderstandings surrounding the nature of gravitational collapse and black holes.
- ***The Natural of Gravitational Collapse*** details a perfectly natural gravitationally collapsed structure —without an infinitely dense core. ... It describes a natural-type black hole for the natural DSSU —all based on the highly-successful DSSU aether theory of gravity.
- Delves into the discovery that a totally collapsed body —a critical-state contiguous collapsed body— is not a black hole; it is not something with an empty region in its interior. ***Yet it still has a lightspeed boundary/horizon! and complies with all the fundamental laws of nature.*** This is a stunning result. The interior is a solid mass of super-neutron density.
- Provides a detailed discussion of the nature of end-stage collapse. The mass and radius are calculated for the final collapsed structure —the Superneutron Star.
- Exploits a powerful unifying concept: the reasonable contention that all particles are configurations of the fundamental particle of energy—the photon. This unifying concept of a single fundamental form of energy (or energy particle) is crucial to understanding gravitation and underlies the success of DSSU theory, an all-encompassing cosmology.
- Includes never-before-revealed aspects of neutron stars.
- This book reveals the truth about black holes: Including the source of the energy of emission beams and astrophysical jets; the mechanism that generates gamma rays; the process by which Nature



produces extreme-energy photons.

- Resolves the long-standing mystery behind spiral galaxy rotation (the excessive speeds, the strange velocity curves, discovered by Vera Rubin) and the mechanism underlying MOND-gravity theory. This resolution came as an unexpected surprise to the author. It was a true *eureka* moment.
- Exploits the principle —clearly obvious yet deeply profound— that a universe capable of creating matter is also capable of extinguishing it.
- **As a way of validating the entire presentation, one of the chapters is devoted to resolving the mystery of the most inexplicable configuration of galaxy clusters to be found in all of astronomy and cosmology. This long-standing conundrum is so inscrutable, that no other cosmology theory has even attempted to explain it. ... In the pages of this book, the reader will find the clear, simple, and compelling explanation —an absolutely fool-proof proof, if you will.**

Book specifications:

• **Title:**

The Nature of Gravitational Collapse

• **Author:** Conrad Ranzan

• **Publisher:**

LAMBERT Academic Publishing

• **Size:** 15cm × 22cm; 310 pages (b&w)

• **Includes:** Over 67 figures, plus a number of tables; references and index

• **ISBN:** 978-3-330-34312-2 (Softcover)

Purchasing information:

www.CellularUniverse.org/B2.htm

Or search on: www.morebooks.de

About the author:

Founded the cosmology known as **Dynamic Steady State Universe** (Munich Symposium 2002);

Originated and proved the *velocity-differential* mechanism of cosmic redshift (AJAA 2014);

Discovered the causal mechanism (the origin and progression) of ellipticity in comoving galaxies (AJAA 2015);

Expounded the *processes of gravitation*, the causes and mechanism of gravitation, (JMP&A, 2014) and (AJAA 2016);

Resolved **Olbers' Paradox** for our NONexpanding infinite Universe (AJAA 2016);

Conrad Ranzan is the Director of DSSU Research, Niagara Falls, Canada.

Additional information:

- The book's core material is based on a research project that was peer reviewed and journal published.
- Knowledge of mathematics is not essential for appreciating and understanding the concepts discussed. The presentation focuses on providing easy-to-follow text and an abundance of clear diagrams, and relegates almost all the math to the Appendix section. Furthermore, the math called upon to support the concepts is quite basic, mostly high-school level, some college level, and no advanced level.

Back cover inscription:

Physics / Astronomy / Cosmology

Standard physics has no underlying explanation for gravity —no causal mechanism. Einstein had searched for the underlying cause, had spent most of his life in a fruitless effort to link electromagnetism to the gravitational effect. Furthermore, it has no plausible theory for gravitational collapse, the problem that has plagued black-hole physics, and the same problem Vera Rubin famously encountered for spiral galaxies. But we know gravity rules the Universe; consequently, the problems with gravity carry over to the Standard model of the universe.

This book makes the crucial connection: the photon's intimate connection to space, matter, and gravity. The connection is followed as it leads to a surprisingly unified theory of gravity, to the explanation behind Superneutron Stars and supermassive black holes, to the power source behind cosmic jets, and to the resolution of what is undisputedly the most intractable astronomical anomaly --- the amazing pattern of galaxies associated with the Abell-85 galaxy cluster.

The Nature of Gravitational Collapse is the story behind the strangest objects in the universe: neutron stars, Superneutron Stars, and Supermassive Black Regions. It is written in a style suitable for a popular audience, but also provides considerable detail (in the Appendix) for the serious student of physics and cosmology. □