

Why the Sun Shines- 61 New Reasons

James Timothy Struck¹

¹BA, BS, AA, MLIS

¹Retired from NASA Contractor, IIT Downtown Campus Libraries, Roosevelt University Reference Librarian, BA, Religion and Humanities, University of Chicago, BS, Biology, NEIU, AA, Truman College, CNA, Harold Washington College, MLIS Masters in Libraries and Information Sciences, Rosary College and Dominican University, PHD Dissertation Submitted Why the Sun Shines? –61 New Reasons

Publication Date: 2026/02/18

Abstract: Here we show that Hans Bethe's 1967 Nobel prize winning on nucleosynthesis in the sun provides an inadequate explanation of the heat creation from the sun. Here we give 55 reasons to show the inadequacy of Hans Bethe of Alsace Lorraine's research. I met Hans as an acquaintance in 1990.

Keywords: Sun Shines, Brightness, Corona, Light, Magnetic Storms, Sun Spots, Chromosphere, Photosphere, Radioactive Decay.

How to Cite: James Timothy Struck (2026) Why the Sun Shines- 61 New Reasons. *International Journal of Innovative Science and Research Technology*, 11(2), 836-837. <https://doi.org/10.38124/ijisrt/26feb356>

I. INTRODUCTION

Here we show that Hans Bethe's 1967 Nobel prize winning on nucleosynthesis in the sun provides an inadequate explanation of the light creation from the sun. Here we give 55 reasons to show the inadequacy of Hans Bethe of Alsace Lorraine's research. I walked by Hans as an acquaintance and just walked by him talking to my math teacher Charles for a class on Advanced math Calculus III in 1990.

II. LITERATURE REVIEW

I grew up doing an 8th grade science project on Creation of the Heavens. I read "In the Beginning" By Isaac Asimov. I took Multidimensional Calculus where I walked by Hans Bethe to see my mathematics teacher. I took Astronomy with actual Genius medal winner Noel Swerdlow in 1988. I got an A in his class. I worked on Eta Carinae all night one day for the class. I got an A in Class on astronomy where I forgot her name as it was a long time ago and I was hit by a train. She was a Polish woman. I got an AA in Arts taking an astronomy class at Chicago City Wide College. I reviewed why the sun shines on Wikipedia, yahoo, Google recently. I heard Dr. Carl Sagan speak at the opening of my graduation in 1989 before he died. I visited NASA in 2003 when I went to Washington D.C. too if I could learn anything. I asked Carl a question I forgot what it was. I went to dozens of observing sessions at Dearborn Observatory. I hear a lecture by Kerry Mullis Nobel Prize winner.

III. METHODOLOGY

I took dozens of classes at the Adler Planetarium and Astronomy Museum including on gamma ray bursts, history

of astronomy and expansion of the Universe Adler Planetarium at night. I heard a talk by Stephen Hawking at the Arie Crown Theater. I heard Dr. Guy Consolmagno from the Vatican Observatory do a talk at the Adler Planetarium and Astronomy Museum. I used to work For NASA applying for many grants. I volunteered t the Planetarium for 2. 5 years.

IV. DISCUSSION/ RESULTS

Here are the 61 new reasons I can provide to supplement Dr. Bethe's work.

1. Plasma Powered solar theory
2. Sun Spots,
3. Fusion,
4. Fission
5. Fusion Between Core and chromosphere.
6. Proton Theory says Hans Bethe of ancestrally Alsace. I am ancestrally from Alsace Lorraine too from 1860's and 1870's. I met him when I was a student at NEIU in biology. He won the Nobel Prize in Physics in 1967.
7. Chemical Radiation,
8. Radiation from other particles,
9. Radioactivity with the Sun,
10. Solar storms
11. Coronal mass ejection,
12. Coronal twisting
- 13 Coronal winding
14. Magnetic storms,
15. Alfvén waves,
16. Circulation and rotation of the sun,
17. Burning of chemicals that give off heat,
18. Radiation of the various planets,
19. Planets reflecting light of the sun like Jupiter and Saturn
20. Burning of gases,
21. Burning of mass and elements,
22. Stability of shining ball of gas of helium and hydrogen and other gases
23. Sound like the Helio seismology program called GONG done by NASA,
24. Incandescence,
25. Sun's core,
26. Chemicals that burn
27. Chemicals emitting light,
28. Fluorescence
29. Phosphoresce,
- 30 Burning gases,
31. Friction between Northern and Southern Hemisphere
32. Solar cycle,
33. Burning gases
34. Gases interacting with each other,
35. Electromagnetic activity
36. Reflection
37. Kirchoff's laws,
38. Color,
- 39.

Intensity, 41. Gas explosions, 42. Chemical element explosions 43. Reflectivity of the star, 44. Maunder Minimum- solar cycle linked to brightness 45. Twinkling of the star from a child's story .1 46. Other stars and suns the idea of book partly that sun is part of Cosmos 3 47. Chromosphere 48. Photosphere 49. Corona 50. Central location in solar system. 4. 51. Nucleosynthesis of Helium from 4 hydrogens at 16 million K by pressure and gravity (5) 52. Gravity towards the sun's center 6. 53. Creation of elements from the sun's cosmology and synthesis in the Universe. I read this when I was an 8th grader working on Creation of the Heaven my 8th grade science project. 54. Because it is hot. 8. 55. Expansion of the Universe gives off a type or radiation supplementing the sun's shine. 9. Mutations contributed to life on Earth. 10. Farming and life are contributed to by the sun. 11."The sun is a second or third generation star. All the matter in it, all the matter you see around you, has been through on or two pervious cycles of stellar alchemy. "12. Other suns can be seen as our brothers. "Somewhere in the Galaxy there are stars- perhaps dozens of them- that are our brothers." 13 56. Helium is made on Earth through decay of radioactive elements like Uranium and thorium. The same process could be needed on the Sun. Helium is not made on Earth not through nucleosynthesis but radioactive decay of uranium and thorium 14. 57. Earth should show how the Sun behaves with helium. 58. Photograph of corona of the sun makes light. No helium in the photograph 15.

V. CONCLUSION

Hans Bethe was thought of as showing us the reason why the sun shines in Nobel Prize winning prize in 1967. I show 61 new reasons why the sun shines like brightness, corona, plasma, magnetic storms, heat and luminosity, photograph of the Sun rather than simply nucleosynthesis and proton-proton cycle. Helium is not simply created through combination of 4 Hydrogens but radioactive decay on Earth. The Sun is far more complicated than a limited understanding of how we make Helium. The Sun is composed of mostly hydrogen at 92% and 8% helium. 16 Sunshine means emitting light not production of helium 17 59. If we look at the sun, which we are not supposed to do, the sun is mostly a ball submitting rays of light no helium is visible. 18 60. Plasma produces sunshine. Plasma is visible in auroras of north aurora and south aurora not helium synthesis, no helium is visible or marked 19. From the spectra, the sun has helium but just as much and more hydrogen. 20. 61 The combination of 4 hydrogens into one helium is just a myth, we are not able to do that on Earth. We rely on radioactive decay to produce helium 21. The sun is not really a ball synthesizing helium, many developments have happened like the idea of plasma. Hans Bethe oversimplified the Sun.

ACKNOWLEDGEMENT

Here I would like to thank my mom Jane Frances Back Struck for her help as she used to like to visit the Adler Planetarium and Astronomy Museum in Chicago.

REFERENCES

- [1]. I met Dr. Hans Bethe as a visitor to NEIU of Cornell University in front of Charles Nissim Sabat's office in 1991. I forgot to introduce myself. He Looked like to me as like old man with fuzzy curly Hair.
- [2]. From a Nursery rhyme for Children Twinkle Little star
- [3]. Cosmos, Random House, Carl Sagan, 1980.
- [4]. Accessed from internet on 2/5/2026. from wikipedia.org "The Sun is the star at the center of the Solar System. It is a massive, nearly perfect sphere of hot plasma, heated to incandescence by nuclear fusion ..."
- [5]. From Google accessed on 2/5/2026 about why they sun shines
- [6]. Ibid
- [7]. Asimov, Isaac, In the Beginning. 1980
- [8]. From google accessed on 2/6/2026
- [9]. Broad Extrapolation and Expansion from memory of Lecture and course work from Dr. Evelyn Gates in 1998.
- [10]. Cosmos, 234.
- [11]. Cosmos, p. 234.
- [12]. Ibid, page 226.
- [13]. Accessed from google.com on 2/ 8/2026
- [14]. Photograph of the corona making light no helium pictured. Cosmos. p. 227.
- [15]. Cosmos, 1980. p. 255. Google accessed 2/10/2026
- [16]. New World Dictionary, pp..524.
- [17]. Personal Observation and viewing on 2/10/2026
- [18]. Accessed from google.com on 2/10/2026
- [19]. Looking at spectra images on google, 2/10/ 2026
- [20]. looking at google.com on 2/20/2026