

# Yes, the Sun is a pulsar

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Thirty-five years ago, Peter Toth asked here, *"Is the Sun a pulsar?"* [1]. The unequivocal answer from scientific measurements and observations since the time Hiroshima was destroyed on 6 August 1945: *"Yes, the Sun is a pulsar."*

As Kuroda [2] suspected, standing in the ashes of Hiroshima in August 1945, *"The sight before my eyes was just like the end of the world, but I also felt that the beginning of the world may have been just like this."* – p. 2

The same nuclear force in cores of U atoms that destroyed Hiroshima, is the force in the core of the Sun that made our elements, birthed the Solar System [3], sustained the origin and evolution of life [4], and endowed mankind with intangible qualities - like creativity, faith, hope and love – and the unalienable right [5] to self-governance to live happy, joyous and free.

That nuclear force is the fountain of energy from which chains of cause and effect flow out of cores of galaxies and stars, causing the whole universe to expand as compressed neutrons become interstellar hydrogen atoms [6].

Since ejection [3], the edge of the solar system has moved about 18 billion km (18 Gkm) from the Sun [7]. About ten billion, billion ( $10^{19}$ ) Earths could now fit inside the gigantic *"sphere of influence"* of the Sun's pulsar core. The Sun induces abrupt changes in Earth's radiation belt [8] and *"has been a driver of these systems more than we had any right to expect,"* Dr. Daniel Baker just reported at the AGU meeting on 4 December 2012 [8]. Past policies and technologies that ignored the dominant influence of the nearby pulsar face increasing opposition and fear from the public [9,10].

## References:

1. Peter Toth, "Is the Sun a pulsar?" *Nature* **270**, 159-160 (1977):  
<http://www.nature.com/nature/journal/v270/n5633/abs/270159a0.html>
2. P. K. Kuroda, *The Origin of the Chemical Elements and the Oklo Phenomenon* (Springer Publishing, 165 pages, Dec 1982): page 2.  
<http://www.amazon.com/Origin-Chemical-Elements-Oklo-Phenomenon/dp/3540116796>
3. Oliver K. Manuel, "Neutron repulsion," *The APEIRON J.* **19**, 123-150 (2012):  
<http://redshift.vif.com/JournalFiles/V19NO2pdf/V19N2MAN.pdf>
4. Karo Michaelian and Oliver Manuel, "Origin and evolution of life constraints on solar models," *J. Modern Physics* **2**, 587-595 (2011):  
[http://dl.dropbox.com/u/10640850/JMP20112600007\\_31445079.pdf](http://dl.dropbox.com/u/10640850/JMP20112600007_31445079.pdf)
5. *The Unanimous Declaration of the Thirteen United States of America*, adopted in Congress on **4 July 1776**:  
<http://www.constitution.org/usdeclar.htm>
6. Oliver K. Manuel, "Is the universe expanding?" *J. Cosmology* **13**, 4187-4190 (2011): <http://journalofcosmology.com/BigBang102.html>
7. Ron Cowan, "Voyager's long good-bye. NASA probes find surprises at the edge of the Solar System," *Nature* **489**, 20-21 (2012):  
<http://www.nature.com/news/voyager-s-long-goodbye-1.11348>
8. NASA's Van Allen probes reveal new dynamics of Earth's radiation belts (5 Dec 2012):  
[http://www.nasa.gov/mission\\_pages/rbsp/news/belt-dynamics.html](http://www.nasa.gov/mission_pages/rbsp/news/belt-dynamics.html)
9. Legacy of a climate treaty: After Kyoto, *Nature* **491** (28 Nov 2012) <http://www.nature.com/news/legacy-of-a-climate-treaty-after-kyoto-1.11880>
10. Jane Qiu, "China sacks officials over Golden Rice controversy," *Nature News* (10 Dec 2012) [http://www.nature.com/news/china-sacks-officials-over-golden-rice-controversy-1.11998?WT.ec\\_id=NEWS-20121211](http://www.nature.com/news/china-sacks-officials-over-golden-rice-controversy-1.11998?WT.ec_id=NEWS-20121211)