

The Erasure of Systems at the Quantum Level:

a Comment on Arxiv:1009.1630

Ron Bourgoin

Edgecombe Community College

Rocky Mount, North Carolina 27801

Abstract

The authors of Arxiv:1009.1630 demonstrate by theoretical arguments that systems at the quantum level can be erased with energy release to boot. In other words, erasure, once instigated, avalanches with a burst of energy. Energy is fed to the system to initiate erasure, but, once begun, erasing continues on its own. Could it be that UFOs have this ability to self-disrupt as a means of aborting a mission? The authors restrain their quantum system from runaway collapse, but, in nature, a collapse, once begun, is uncontrollable and irreversible.

We consider an atom as a quantum system. The atom is composed of extranuclear electrons and a central nucleus in which reside protons. We apply a trigger to force the electrons down closer to the nucleus.¹ The trigger magnitude is much lower than subsequent output of energy. As the electrons approach the nucleus, the protons engage in a feeding frenzy. The once-stable nucleus is now completely destabilized, and the nucleus flies apart. The particles spread out at enormous velocities due to the reaction of implosion.² The system has completely collapsed in on itself. It has been erased accompanied by a burst of energy.

Under normal atmospheric conditions, the above scenario would not occur spontaneously because energy is continually being supplied to the electrons to keep them excited so they won't fall, but at absolute zero such protection is not available. The atom has to come to thermal equilibrium with its surroundings,³ so the electrons have to drop into the nucleus. The nucleus then disrupts, and the particles become part of what we know as the cosmic particle spectrum.

The evaporation of an atom, however, can intentionally be induced electronically. You can apply an electronic trigger to induce collapse.⁴ While we've talked about the collapse of single atoms as quantum systems, it could be that instigation of collapse of one atom avalanches into the collapse of the entire macroscopic matter. We perhaps need to be grateful that the Universe's space is not at absolute zero, and perhaps the reason the Universe continues to exist is owed to the fact that there is some heat, some temperature, in the Universe. It isn't much, 2.7K, but enough to prevent the system from going out of existence.

In Arxiv:1009.1630,⁵ the authors discuss erasure of parts of electronic memories. They impose rigid controls on erasure by controlling the energy input. If we apply their technique to our example of the atom, we would feed only a few electrons to the protons in the nucleus. In that case, the nucleus would fission, say, in two parts rather than several. In the case of flashes accompanying UFO sightings, perhaps these signal total system disruption.⁶ It could be that the disruption is triggered electronically from some exterior point.

References

1. Carroll, Robert L., The Eternity Equation, J.R. Rowell Printing Company, Charleston, South Carolina, 1976.
2. Bourgoïn, R., "Obtaining Superluminal Velocity in an Interstellar Rocket", *Infinite Energy* **14**, 82, Nov/Dec, 2008.
3. Flores-Hidalgo, G., "The Thermalization Process of an Atom with the Thermal Radiation Field", *J.Phys A:Math. Theor.* **40**, 13217-13230.
4. Bourgoïn, R., "The Versatile Uses of Cold Fission", *Infinite Energy* **13**, 75, 2007.
5. del Rio, L. *et al*, "The thermodynamic meaning of negative entropy", Arxiv:1009.1630.
6. Herring, S., "Scientific Paradigms for the Perception of UFOs", *Infinite Energy* **15**, 86, July/August, 2009.