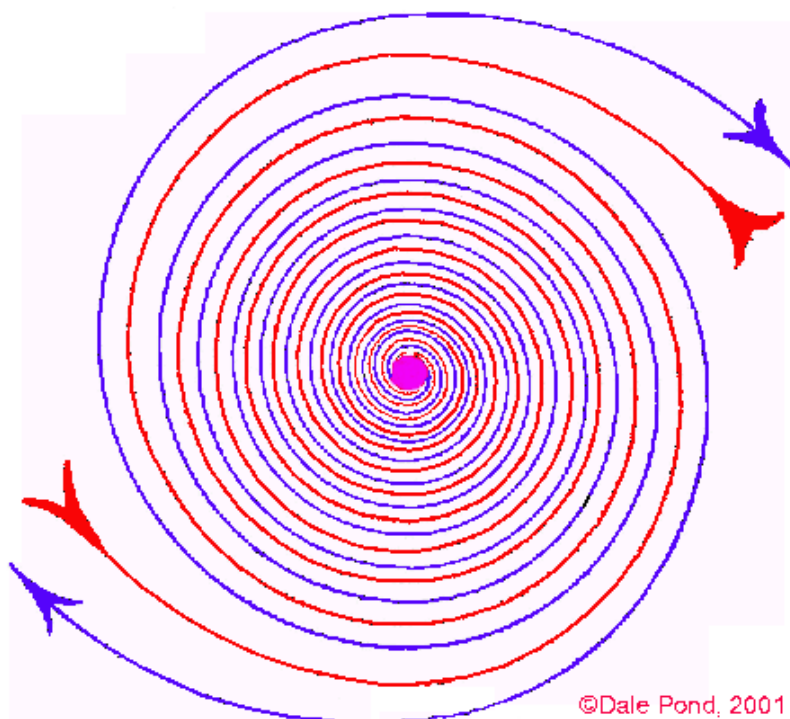


3.15 - Modern References to Polar States

Col. Thomas [Bearden](#): "I'll give you several of them that bear directly on this. See R. Chen, "Cancellation of internal forces," American Journal of Physics, Vol. 49, No. 4, Apr. 1981, p. 372. Chen gives a discussion of these summation vectors and internal vectors. He points out that the internal forces occur in equal and opposite pairs; in other words, as internal stresses. That's certainly pointing out the internal, bidirectional force structure of a scalar stress - a [scalar potential](#), if we're talking EM stress and EM forces. Note that this internal pattern is exactly what [Maxwell's quaternion](#) theory captured and retained, and that the [Heaviside](#) and Gibbs vector theory discards. Further, the quaternions captured the internal order of this internal force vector structure as well. Second, in a beautiful article Kidd bluntly states that all our measurement/detection is really binocular. See Richard Kidd et al, "Evolution of the modern [photon](#)," American Journal of Physics, Vol. 57, No. 1, Jan. 1989, p. 27-35. E.T. Whittaker, of course, wrote the definitive engineering methodology of how to do all this with EM waves - how to infold the EM waves into a bidirectional wave structure that produces a standing wave of externally force-field-free [scalar potential](#). The two Whittaker papers are (1) "On the partial differential equations of mathematical physics," Mathematische Annalen, Vol. 57, 1903, p. 333-355; and (2) "On an expression of the electromagnetic field due to electrons by means of two [scalar potential](#) functions," Proc. Lond. Math. Soc., Series 2, Vol. 1, 1904, p. 367-372.



©Dale Pond, 2001

Figure 3.33 - Syntropy Seeking Center - Entropy Fleeing from Center

(courtesy [University of Science and Philosophy](#))

([click to enlarge](#))

Red/Positive/Male Force Seeking Center - [syntropic](#) - ordering.
Blue/Negative/Female Force Fleeing Center - [entropic](#) - disordering.

See Also

[Affinity](#)
[Attraction](#)
[Bjerknes Effect](#)
[Cavitation](#)

confluent

cyclotron

Creativity as an Anti-entropic Principle

Entropy

etheric seeks center

Figure 2.14 - Intermingled Male Father Syntropic and Female Mother Entropic

Figure 3.33 - Syntropy Seeking Center - Entropy Fleeing from Center

Figure 13.10 - Convergence of Syntropic Forces

Figure 13.13 - Gravity Syntropic and Radiative Entropic Waves

inwind

inwinding rotary current

Law of Assimilation

Law of Attraction

Life

Pittsburg Dispatch April 07-1890 description of the two opposing forces.

Sympathetic Association

1.11.5 - Syntropy a Sketch

2.19 - Male-Father and Female-Mother Forces

2.23 - Male-Father-Syntropic and Female-Mother-Entropic Swirling Cosmic Dance

14.32 - Law of Assimilation

See Also

Conjugate Variables

Part 02 - Origin of Polar States

Polar

Principle of Regeneration

<< 3.14 - - Part 03 - Table of Contents - - 3.16 >>