



# Po Pi Phi Psi the ijk's of Vortex Mathematics

*Willie Johnson Jr.*

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Po Pi Phi Psi explores the relationships between Vortex Based Mathematics (VBM), its relationships to the mathematics of quaternions, and the cosmology of the Dogon. The Dogon are an ancient people of Mali whose religion is based upon the cosmology of the Sirius star system. Their knowledge of this system predates any such Western astronomical studies or theories. In Dogon language Po is the smallest of things but also the densest of things. They call the star Sirius B, Po Tolo, a dense white dwarf star. The cosmology of the Dogon uncannily reflects the mathematics of quaternions. The fractal nature of VBM lends itself to being regarded as a special case of Hamilton's quaternions. We thus explore the interconnectedness of all three. The book also takes some rather strange twists with the quaternions leading us to novel perspectives on magic squares and the behavior of virtual particles. VBM is by no means numerology. It is a well defined mathematical system for generating fractals. The basic rules of operation are extremely easy requiring very little effort. The wonderment comes when we are introduced to how these numbers behave when placed within Marko Rodin's "circuit". Not only do the quaternions act as if they are in an electrical circuit but as an added bonus we generate Phi, the golden ratio. Pi is intimately related to Hamilton's quaternions via Euler's identity, and Psi is the wave function of quantum mechanics. The book cleverly unifies these four seemingly disparate entities into one collective whole all through the rules of VBM.

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