

Fine Structure Constant

The fine structure constant is a fundamental physical constant that measures the strength of the electromagnetic interaction between charged particles.

$$\alpha = \frac{1}{4\pi\epsilon_0} \frac{e^2}{\hbar c} \approx 0.0072973525693 \approx \frac{1}{137}$$

- e is the elementary charge,
- ϵ_0 is the vacuum permittivity
- $\hbar$ is the reduced Planck constant
- c is the speed of light in vacuum

The Fine Structure Constant

Joel Moses Hensley



The Fine Structure Constant:

The derivation of the fine structure constant Bernd Ganter,2013-10-24 A short description of how the value of the fine structure constant $1/137$ comes about The Fine Structure Constant Keith Whittingslow,2000 The author explores the world of communication in his poetry By way of experimental verse he seeks to open possible new channels of meaning and understanding His experimentation with new word forms can assist in the transformation of conventional thought into new dimensions of consciousness Keith Whittingslow s words dance like penetrating Light mirrors in this rare collection of enchanting entertaining and enlightening prose poetry This work is a must for all readers interested in the pursuit of cognition Sharon Franquemont author of You Already Know What To Do and Intuition Your Electric Self Keith s poems conjure a vast ocean in which soul and science ripple together Dive into these delightful waves and swim in the vastness Dan Clurman author of Floating Upstream In this collection you can just taste the appetite Keith Whittingslow has for language and ideas Similar to the late Bucky Fuller s book Intuition the Apollonian erudite rationative precision and clarity of the natural philosopher is here but that can only get one so far and Whittingslow wants to do more So he heroically allows himself to self deconstruct into a Dionysian creative reprocessing of what he s been used to reading and writing about in a more rule bound manner As a result we can now experience the combinatory play and wedding festivities of a fine intellect pushing its own envelope with linguistic and ideational adventurous juxtapositions that reflect chance taking experimentation taking the reader to the edge of what a disciplined human language wielding mind such as his pines to do dancing out of its usual constraints to reach for new ways of capturing truth for itself and conveying in turn Whittingslow does a great job of breaking up the usual prosaic language mind flow with all the still clear cut pieces in it now reforming kaleidoscopically like fellow poet Shelley s many colored dome of glass through which we feel the light of the emerging poet trying to break free from the bonds of its own intellectualizing dispassionate tendencies to sing the deeper wonder Jon Klimo author of Channeling *Physics Based Calculation of the Fine Structure Constant* ,2009 **Deciphering the fine structure constant** Bernd Ganter,2018 Uniqueness of the Fine-structure Constant I. E. SEGAL,CHICAGO UNIV IL.,1955 **The Exact QED Calculation of the Fine Structure Constant Implies ALL 4D Universes Have the Same Physics/Life Prospects** Stephen Blaha,2019-09-15 Exact QED Calculation and vacuum polarization relation to universe evolution **The Fine Structure Constant-[alpha]-and Its Role in Atomic Process** Kenneth Crain,1996 The Physical Meaning of the Fine Structure Constants Uwe J. M. Reichelt,2021 The fine structure constant is one of the guidelines natural constants in physics Their physical meaning gilded as a riddle This is to be clarified in this work and its real meaning in physics will be developed and seen The new result shows that the periodic table of the chemical elements has an upper limit **A Precision Measurement of the Fine Structure Constant** Joel Moses Hensley,2002 **Possible Path for the Calculation of the Fine Structure Constant** ,2016 Variations of the Fine Structure Constant in Space and Time David

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PROGRESS IN PHYSICS, Vol. 15. The Journal on Advanced Studies in Theoretical and Experimental Physics, including Related Themes from Mathematics Dmitri Rabounski, Florentin Smarandache, Larissa Borissova, Progress in Physics has been created for rapid publications on advanced studies in theoretical and experimental physics including related themes from mathematics and astronomy

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