# **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,
- €0 is the vacuum permittivity
- ħ is the reduced Planck constant
- c is the speed of light in vacuum

### **The Fine Structure Constant**

Dmitri Rabounski, Florentin Smarandache, Larissa Borissova

#### 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 The Fine Structure Constant Keith Whittingslow, 2000 The author explores the fine structure constant 1 137 comes about 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 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

Fonseca Mota, University of Cambridge. Department of Applied Mathematics and Theoretical Physics, 2003 On the Variability of the Fine Structure Constant Jason Lott Evans, 2004 This thesis addresses the issue of the time variability of the fine structure constant alpha Recent claims of a varying alpha are set against the established standards of quantum electrodynamical theory and experiments A study of the feasibility of extracting data on the time dependence of alpha using particles in Penning traps is compared to the results obtained by existing methods including those using astrophysical data and those obtained in atomic clock experiments Suggestions are made on the nature of trapped particles and the trapping **An Interpretation of the Origin of the Fine Structure Constant** Kazuo Kondo, 1982 The Physics of the Two-Dimensional Electron Gas J.T. Devreese, F.M. Peeters, 2012-12-06 The 1986 Advanced Study Institute on The Physics of the two Dimen sional Electron Gas took place at the Conference Centre liTer Helme close to Oostende Belgium from June 2 till 16 1986 We were motivated to organize this Advanced Study Institute in view of the recent experimental and theoretical progress in the study of the two dimensional electron gas An additional motivation was our own theore tical interest in cyclotron resonance in two dimensional electron systems at our institute It is my pleasure to thank several instances and people who made this Advanced Study Institute possible First of all the sponsor of the Advanced Study Institute the NATO Scientific Committee Furthermore the co sponsors Agfa Gevaert Bell Telephone Mfg Co N V Burroughs Belgium Control Data Digital Equipment Corporation Esso Belgium European Research Office USA Kredietbank National Science Foundation USA Special thanks are due to the members of the Program Committee and the members of the Organizing Committee I would also like to thank Mrs H Evans for typing assistance A Determination of the Fine Structure Constant Using **Precision Measurements of Helium Fine Structure** Marc Smiciklas, 2010 19th Natural Philosophy Alliance Proceedings Greg Volk, 2012-07-14 The Natural Philosophy Alliance NPA sponsors regular international conferences for presenting high quality papers discussing aspects of philosophy in the sciences Many papers offer challenges to accepted orthodoxy in the sciences especially in physics Everything from the micro physics of quantum mechanics to the macro physics of cosmology is entertained Though the main interest of the NPA is in challenging orthodoxy in the sciences it will also feature papers defending such orthodoxy Our ultimate propose is to enable participants to articulate their own understanding of the truth All papers are reviewed by society officers and sometimes by other members before presentation in conferences and they are edit sometimes very significantly prior to publication in the Proceedings of the NPA

**Progress in Physics, vol. 1/2012** Dmitri Rabounski, Florentin Smarandache, Larissa Borissova, The Journal on Advanced Studies in Theoretical and Experimental Physics including Related Themes from Mathematics 137: Jung, Pauli, and the Pursuit of a Scientific Obsession Arthur I. Miller, 2010-05-17 The history is fascinating as are the insights into the personalities of these great thinkers New Scientist Is there a number at the root of the universe A primal number that everything in the world hinges on This question exercised many great minds of the twentieth century among them the

groundbreaking physicist Wolfgang Pauli and the famous psychoanalyst Carl Jung Their obsession with the power of certain numbers including 137 which describes the atom s fine structure constant and has great Kabbalistic significance led them to develop an unlikely friendship and to embark on a joint mystical quest reaching deep into medieval alchemy dream interpretation and the Chinese Book of Changes 137 explores the profound intersection of modern science with the occult but above all it is the tale of an extraordinary fruitful friendship between two of the greatest thinkers of our times Originally published in hardcover as Deciphering the Cosmic Number 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 Higher Speculations Helge Kragh, 2011-01-06 A historical account of highly ambitious attempts to understand all of nature in terms of fundamental physics Presenting old and new theories of everything in their historical contexts the book

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Unveiling the Power of Verbal Artistry: An Mental Sojourn through The Fine Structure Constant

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