

Shifting Standards Experiments In Particle Physics In The Twentieth Century

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Shifting Standards: Experiments in Particle Physics in the Twentieth Century Allan Franklin On July 4, 2012 the CMS and ATLAS collaborations at the Large Hadron Collider jointly announced the discovery of a new elementary particle, which resembled the Higgs boson, the last remaining undiscovered piece of the Standard Model of elementary particles.

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Shifting Standards: Experiments in Particle Physics in the Twentieth Century, Allan Franklin, U. Pittsburgh Press, 2013. \$50.00 (360 pp.). ISBN 978-0-8229-4430-0 Buy at Amazon. As Allan Franklin rightly points out in his informative new book, Shifting Standards: Experiments in Particle Physics in the Twentieth Century, the Higgs boson discovery in 2012 was a high-water mark for media coverage of the role of statistics in particle physics.

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The book *Shifting Standards* is a valuable contribution to the literature on the history and philosophy of science and specifically to the philosophy of scientific experimentation, the discipline of which Allan Franklin is one of the outstanding scholars and founders. Here, the central focus of the book is the contemporary shift in the norms of representation of experimental results in particle physics as well as the increasing role and drawbacks of statistical standards of acceptance for ...

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Twentieth Century Allan Franklin University of Colorado July 15, 2015 4:00 p.m. (coffee @ 3:30) In this paper I will discuss changes in the presentation of experimental results from the early 20th century to the present and their implications.

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The University of Chicago Press. Books Division. Chicago Distribution Center

Allan Franklin. Shifting Standards: Experiments in ...

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The Large Hadron Collider just discovered a new pentaquark, but how does it fit in our current understanding of the Standard Model? Could Everything We Know ...

New Subatomic Particles Are Shifting the Standard Model of ...

2. Standard model of particle physics The Standard Model (SM) of particle physics (Gottfried and Weisskopf, 1984) was developed throughout the 20th century, although the current formulation was essentially finalized in the mid-1970s following the experimental confirmation of the existence of quarks (Bloom et al., 1969; Breidenbach et al., 1969).

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Fickian-based particle shifting algorithms with a selectively activated free-surface correction are developed for air-water

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simulations to prevent the creation of unnatural voids and maintain numerical stability through nearly uniform distributions. Using the shifting algorithm without surface

A multi-phase particle shifting algorithm for SPH ...

Adding new kinds of force-carrying particles to the Standard Model isn't exactly ruled out by anything in physics, but finding one would be a huge deal.. Last year physicists were excited by particles moving away at weird angles, hinting at a hitherto unknown force at work.. Similarly, the number of electrons recoiling in the XENON1T dark matter setup got tongues wagging early this year ...

Physicists May Have The First Experimental Evidence of a

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Shifting Standards: Experiments in Particle Physics in the Twentieth Century Paul Halpern is professor of physics at the

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University of the Sciences in Philadelphia and the author of several books, including *Collider: The Search for the World's Smallest Particles* (Wiley, 2009).

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Time dilation is a difference in the elapsed time as measured by two clocks due to there existing between them either a relative velocity or a difference in gravitational potential between their locations. After compensating for varying signal delays due to the changing distance between an observer and a moving clock (i.e. Doppler effect), the observer will measure the moving clock as ticking ...

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