

# Heisenberg Uncertainty Principle

*Simultaneously measuring both the exact position and precise momentum of a particle is impossible.*

Uncertainty in  
position

Uncertainty in  
momentum

$$\Delta x \cdot \Delta p \geq \frac{h}{2\pi}$$



The principle also applies to other conjugate pairs in quantum mechanics, including position and velocity as well as energy and time.

# Science And Uncertainty

**H. N. Pollack**



## Science And Uncertainty:

**Uncertainty and Quality in Science for Policy** S.O. Funtowicz, J.R. Ravetz, 2012-12-06 60 I 137 0 29 ERROR BARS  
tONE 1 4 0 E a a Z30 137 0388 0 137 0377 20 0 to 0 50 Fig 1 Successive recommended values of the fine structure constant  
IX I B N Taylor et al 1969 7 reminder that the value is not fully accepted by colleagues since they will expect it to jump about  
for a while longer Our next example is taken from a recent study in the social sciences It shows how a set of related  
estimates of uncertainty can be expressed clearly and effectively by NUSAP Suppose that we wish to forecast what the future  
price of a basic commodity might be especially when at the moment its price is artificially maintained by a cartel of producers  
There is no experimental evidence on such a future contingency and yet we are not completely in the dark There is a long  
history of expertise in the field and there is a well tried standard model by which experts guesses can be translated into  
mathematical form

**Uncertain Science ... Uncertain World** Henry N. Pollack, 2005-06-23 Is the world warming due to  
the Greenhouse Effect Can nuclear weapon arsenals be relied upon without periodic testing Is the world running out of oil  
What action should be taken against an outbreak of foot and mouth or BSE Why can't scientists provide certain answers to  
these and many other questions The uncertainty of science is puzzling It arises when scientists have more than one answer to  
a problem or disagree amongst themselves In this engaging book Henry Pollack guides the reader through the maze of  
contradiction and uncertainty acquainting them with the ways that uncertainty arises in science how scientists accommodate  
and make use of uncertainty and how in the face of uncertainty they reach their conclusions Taking examples from recent  
science headlines and every day life Uncertain Science Uncertain World enables the reader to evaluate uncertainty from  
their own perspectives and find out more about how science actually works

**Uncertain Science ... Uncertain World** H.  
N. Pollack, 2014-05-14 Using science headlines and everyday examples this engaging book describes why science is uncertain  
for the general reader

**Uncertainty** Kostas Kampourakis, Kevin McCain, 2019-10-07 Scientific knowledge is the most solid  
and robust kind of knowledge that humans have because of the self correcting character inherent in its own processes  
Nevertheless anti evolutionists climate denialists and anti vaxxers among others question some of the best established  
scientific findings making claims that are unsupported by empirical evidence A common aspect of these claims is the  
reference to the uncertainties in these areas of research which leads to the conclusion that science is uncertain about  
evolution climate change and vaccination among others The truth of the matter is that while the broad picture is clear there  
exist and will always exist uncertainties about the details of the respective phenomena In this book Kampourakis and McCain  
show that uncertainty is an inherent feature of science that does not devalue it In contrast uncertainty actually makes  
science advance because it motivates further research The first book of its kind Uncertainty draws on philosophy of science  
to explain what uncertainty in science is and how it makes science advance It contrasts evolution climate change and  
vaccination where the uncertainties are exaggerated to genetic testing and forensic science where the uncertainties are

usually overlooked Kampourakis and McCain discuss the scientific psychological and philosophical aspects of uncertainty in order to explain what it is really about what kind of problems it actually poses and why it ultimately makes science advance Contrary to the public representations of scientific findings and conclusions that produce an intuitive but distorted view of science as certain we need to understand and learn to live with uncertainty in science **Representing Scientific**

**Knowledge** Chaomei Chen,Min Song,2017-11-25 This book is written for anyone who is interested in how a field of research evolves and the fundamental role of understanding uncertainties involved in different levels of analysis ranging from macroscopic views to meso and microscopic ones We introduce a series of computational and visual analytic techniques from research areas such as text mining deep learning information visualization and science mapping such that readers can apply these tools to the study of a subject matter of their choice In addition we set the diverse set of methods in an integrative context that draws upon insights from philosophical sociological and evolutionary theories of what drives the advances of science such that the readers of the book can guide their own research with their enriched theoretical foundations Scientific knowledge is complex A subject matter is typically built on its own set of concepts theories methodologies and findings discovered by generations of researchers and practitioners Scientific knowledge as known to the scientific community as a whole experiences constant changes Some changes are long lasting whereas others may be short lived How can we keep abreast of the state of the art as science advances How can we effectively and precisely convey the status of the current science to the general public as well as scientists across different disciplines The study of scientific knowledge in general has been overwhelmingly focused on scientific knowledge per se In contrast the status of scientific knowledge at various levels of granularity has been largely overlooked This book aims to highlight the role of uncertainties in developing a better understanding of the status of scientific knowledge at a particular time and how its status evolves over the course of the development of research Furthermore we demonstrate how the knowledge of the types of uncertainties associated with scientific claims serves as an integral and critical part of our domain expertise **The Cunning of Uncertainty** Helga

Nowotny,2015-11-19 Uncertainty is interwoven into human existence It is a powerful incentive in the search for knowledge and an inherent component of scientific research We have developed many ways of coping with uncertainty We make promises manage risks and make predictions to try to clear the mists and predict ahead But the future is inherently uncertain and the mist that shrouds our path an inherent part of our journey The burning question is whether our societies can face up to uncertainty learn to embrace it and whether we can open up to a constantly evolving future In this new book Helga Nowotny shows how research can thrive at the cusp of uncertainty Science she argues can eventually transform uncertainty into certainty but into certainty which remains always provisional Uncertainty is never completely static It is constantly evolving It encompasses geological time scales and at the level of human experience split second changes as cells divide Life and death decisions are taken in the blink of the eye while human interactions with the natural environment may reveal their

impact over millennia Uncertainty is cunning It appears at unexpected moments it shuns the straight line takes the oblique route and sometimes the unexpected short cut As we acknowledge the cunning of uncertainty its threats retreat We accept that any scientific inquiry must produce results that are provisional and uncertain This message is vital for politicians and policy makers do not be tempted by small short term controllable gains to the exclusion of uncertain high gain opportunities Wide ranging in its use of examples and enriched by the author s experience as President of the European Research Council one of the world s leading funding organisations for fundamental research The Cunning of Uncertainty is a must read for students and scholars of all disciplines politicians policy makers and anyone concerned with the fundamental role of knowledge and science in our societies today     Scientific Uncertainty and Information Léon Brillouin,1966

**Communicating Uncertainty** Sharon M. Friedman, Sharon Dunwoody, Carol L. Rogers,2012-10-12 Exploring the interactions that swirl around scientific uncertainty and its coverage by the mass media this volume breaks new ground by looking at these issues from three different perspectives that of communication scholars who have studied uncertainty in a number of ways that of science journalists who have covered these issues and that of scientists who have been actively involved in researching uncertain science and talking to reporters about it In particular Communicating Uncertainty examines how well the mass media convey to the public the complexities ambiguities and controversies that are part of scientific uncertainty In addition to its new approach to scientific uncertainty and mass media interactions this book distinguishes itself in the quality of work it assembles by some of the best known science communication scholars in the world This volume continues the exploration of interactions between scientists and journalists that the three coeditors first documented in their highly successful volume Scientists and Journalists Reporting Science as News which was used for many years as a text in science journalism courses around the world     *Scientific Uncertainty, and Information* Leon Brillouin,2014-05-12 Scientific Uncertainty and Information focuses on the validation of theories developed in physics chemistry biology and other fields of science The book first elaborates on thermodynamics statistics and information and the importance of scientific laws Discussions focus on the importance and value of theories empirical and theoretical laws scientific laws and negentropy principles of thermodynamics entropy and value negentropy and energy degradation and thermodynamics and information theory The text then ponders on mathematical theorems and physical theories imagination and invention in a theory and causality and determinism The manuscript underscores the weaknesses and limitations of mechanics and Poincare and the shortcomings of the Hamilton Jacobi method for classical or quantized mechanics Topics include the discussion of a simple example with two variables degeneracy conditions and the possibility of finding a Hamilton Jacobi transformation function approximations for nondegenerate systems methods of analytical dynamics for separated variables and the objective world and the problem of determinism The publication is a dependable reference for researchers interested in the validation of theories in science     Error and Uncertainty in Scientific Practice Marcel Boumans,Giora

Hon, Arthur Petersen, 2015-10-06 Assessment of error and uncertainty is a vital component of both natural and social science. This edited volume presents case studies of research practices across a wide spectrum of scientific fields. It compares methodologies and presents the ingredients needed for an overarching framework applicable to all. [A Mixed-methods Exploration of Publics' Perceptions of Scientific Uncertainty](#)

Rebecca Beets, 2024 Uncertainty is an inherent aspect of science. Yet the multidimensional nature of scientific uncertainty poses several challenges for science communication and research. Scientific uncertainty has been defined in multiple ways and measured across a variety of issue contexts. However, there is a need to better understand how different audiences view scientific uncertainty and how those views shape other attitudes towards science, particularly across science contexts. To address this need, this dissertation uses a mixed method approach to explore the concept of scientific uncertainty across four related studies. In study A, I conduct semi-structured interviews with university scientists in the biological, physical, and social sciences in the United States to examine how they view uncertainty in science and their perceptions of communicating uncertainty with the media and experiences engaging with lay publics. My findings suggest that while some scientists hold narrow conceptualizations of scientific uncertainty, most view uncertainty as arising in various forms throughout the research process. Additionally, I find that scientists are critical about how uncertainty is communicated by journalists and understood by lay publics, which could have implications for scientists' engagement. In the remaining studies, I shift focus from scientists to lay publics. Studies B and C are two separate but complementary studies. In study B, I conduct focus groups with lay publics in the United States to better understand how they view the sources of uncertainty in science. I identify three major themes that reflect different dimensions of uncertainty in science related to processes, contexts, and impacts. Through the focus groups, I identify eight sources of uncertainty spanning those three dimensions to include in the scale developed in Study C. Building on the focus group findings in Study C, I develop and validate a novel survey scale to measure public understanding of scientific uncertainty (PUSU) in the United States. I find support for a unidimensional nine-item scale. I examine the reliability and validity of the new scale, including analyzing how it relates to other theoretically relevant constructs, including attitudes towards science and dispositions towards general uncertainty. In Study D, I experimentally test how intolerance for scientific uncertainty differs across five science issue contexts. I find that intolerance varies across contexts and that issue contexts predict intolerance for uncertainty relative to science in general. Additionally, using the PUSU scale developed in Study C, I find that public understanding of scientific uncertainty is associated with less intolerance for scientific uncertainty.

**Scientific Uncertainty and the Politics of Whaling**

Michael Heazle, 2012-11-20 In this intriguing study, Michael Heazle examines how International Whaling Commission (IWC) policy dramatically shifted from furthering the interests of whaling nations to eventually banning all commercial whaling. Focusing on the internal workings of a single organization, Heazle explores the impact of political and economic imperatives on the production and interpretation of scientific research and advice. Central to his work are the

epistemological problems encountered in the production of truth Science does not produce incontestable facts that can be expected to lead to consensus decisions rather the problematic nature of knowledge itself allows for various interpretations of data depending on the interests of those at the table It is precisely the nature of scientific knowledge Heazle argues that has made uncertainty a tool in service of political objectives When scientific advice to whaling nations could not with absolute certainty declare whaling practices a threat to stocks those IWC members with substantial investments of political and economic capital used this uncertainty to reject a reduction in quotas As perceptions of whaling changed with the collapse of Antarctic whaling stocks further diminishing economic returns and public opinion turning against commercial whaling uncertainty switched sides Nonwhaling members in the IWC a majority by the late 1970s claimed that because scientific data could not prove that commercial whaling was sustainable hunting should stop Uncertainty was used to protect the resource rather than the industry That science cannot be an impartial determinant in policy making decisions does not render it useless But Heazle s analysis does suggest that without understanding the role of scientific uncertainty and the political purposes for which it is used international cooperation on wildlife management and broader issues will continue to become bogged down in arguments over whose science is correct Best Practice Approaches for Characterizing, Communicating and Incorporating Scientific Uncertainty in Climate Decision Making : Synthesis and Assessment Product 5.2 Report ,2009

**Uncertainty** Kostas Kampourakis, Kevin McCain, Anti evolutionists climate denialists and anti vaxxers among others question some of the best established scientific findings by referring to the uncertainties in these areas of research Uncertainty shows that uncertainty is an inherent feature of science that makes it advance by motivating further research

*The Uncertainties of Modern Physical Science. Being the Annual Address of the Victoria Institute ... 1876* Victoria Institute (Great Britain), 1876 **Science, Politics and Morality** R. von Schomberg, 2013-06-29 Current environmental problems and technological risks are a challenge for a new institutional arrangement of the value spheres of Science Politics and Morality Distinguished authors from different European countries and America provide a cross disciplinary perspective on the problems of political decision making under the conditions of scientific uncertainty cases from biotechnology and the environmental sciences are discussed The papers collected for this volume address the following themes i controversies about risks and political decision making ii concepts of science for policy iii the use of social science in the policy making process iv ethical problems with developments in science and technology v public and state interests in the development and control of technology

**At the Edge of Uncertainty** Michael Brooks, 2015-02-10 Engaging touches on advanced computing essential differences between men and women the power of the will to live mysteries of the cosmos and more The Washington Post The atom The Big Bang DNA Natural selection All are ideas that revolutionized science and all were dismissed out of hand when they first appeared The surprises haven t stopped in recent years and in *At the Edge of Uncertainty* bestselling author Michael Brooks investigates the new wave of radical insights that are shaping the future of

scientific discovery Brooks takes us to the extreme frontiers of what we understand about the world He journeys from the observations that might rewrite our story of how the cosmos came to be through the novel biology behind our will to live and on to the physiological root of consciousness Along the way he examines the gender imbalance in clinical trials explores how merging humans with other species might provide a solution to the shortage of organ donors and finds out whether the universe really is like a computer or if the flow of time is a mere illusion Absorbing scintillating the edgy edge of scientific investigation presented with verve Kirkus Reviews Mind bending Brooks handily works his way through these thorny problems highlighting current research and researchers along the way Publishers Weekly starred review     *Prose Masterpieces from Modern Essayists: The science of history* ,1893     **Uncertainty and Environmental Policy** ,2000

**Experts in Uncertainty** Roger Cooke,2023 This volume contains an extensive survey and critical examination of current views on the use of expert opinion in scientific inquiry and policy making



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frisian hālilönj danish helgoland is a small archipelago in the north sea a part of the german state of schleswig holstein since  
1890 the islands were historically possessions of denmark then became the

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