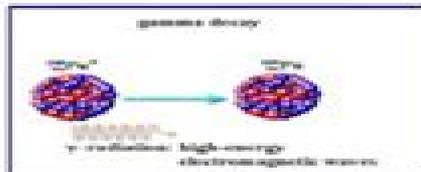
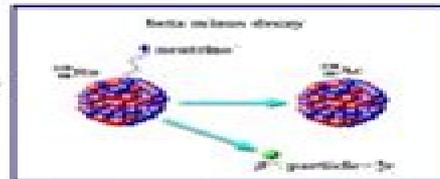
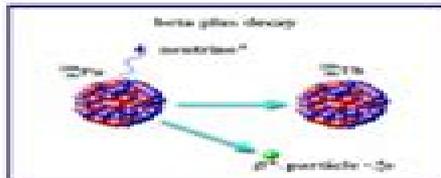
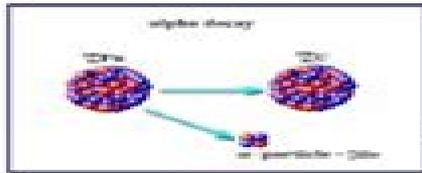


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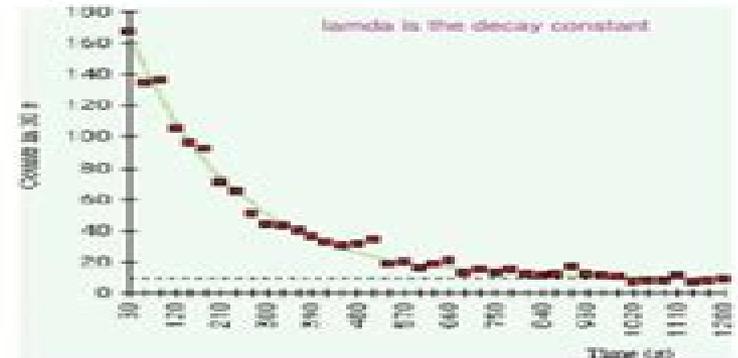
SUMMARY



equation for half life

$$N = N_0 e^{-\lambda t}$$

$$t_{1/2} = \frac{\ln(2)}{\lambda}$$



1

Radiation Physics, Lecture 2

SAMPLE QUESTION

Radio-isotopes Strontium-90 ($T_{1/2} = 28$ years) and Iodine-131 ($T_{1/2} = 8$ days) are both dangerous nuclear fission products, being bone and thyroid seeking respectively.

(a) How long after a nuclear explosion will it take for the ${}^{131}\text{I}$ activity to fall by a factor of 1024?

(b) By what fraction will Sr-90 activity be reduced over 64 years?

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Mihai Putz



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Detectors in Particle Physics Georg Viehhauser, Tony Weidberg, 2024-03-06 This textbook provides an accessible yet comprehensive introduction to detectors in particle physics. It emphasises the core physics principles enabling a deeper understanding of the subject for further and more advanced studies. In addition to the discussion of the underlying detector physics, another aspiration of this book is to introduce the reader to practically important aspects of particle detectors like electronics alignment, calibration, and simulation of particle detectors. Case studies of the various applications of detectors in particle physics are provided. The primary audience is graduate students in particle or nuclear physics, in addition to advanced undergraduate students in physics.

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New Frontiers in Nanochemistry: Concepts, Theories, and Trends Mihai Putz, 2020-05-06 The final volume of this new innovative and informative three-volume set explains and explores the essential basic and advanced concepts from various areas within the nanosciences. This volume primarily focuses on increasing awareness of sustainable nanochemistry, meaning the social and economic impact of nanochemistry in order to mitigate ecological resource depletion and to promote the exploration of nature as a resource for future benefits. This volume adopts a pharmacological lens, examining the multitude of ways in which nano-research can contribute to the development of pharmaceutical drugs, and paying particular attention to toxicology and renewable energy within nanochemistry. Under the vast expertise of the editor, the volume contains 34 entries contributed by renowned international scientists and scholars. The content in this volume covers topics such as anti-HIV agents, ecotoxicology, solar cells, and photovoltaic phenomena, spectral SAR, and more, alphabetically organized and accompanied by equations, figures, and brief letters in order to emphasize the potential applications of the concepts discussed.

Getting the Climate Science Facts Right Medani P. Bhandari, 2022-09-01 *Getting the Climate Science Facts Right* discusses climate change science with reference to the Intergovernmental Panel on Climate Change (IPCC). Addressing climate change is the most important public priority of the 21st Century. Unlike many issues, however, this issue is being driven by both science and its interface with politics. The main institution for bridging this division between science and international politics is the IPCC. As such, it is the main source of the facts from which climate change policy is developed. This book describes the ways in which the IPCC arrives at these facts and so can be sure they are complete and evidence-based. Seldom in history has science had such a direct relationship with politics. The negotiation of an

international policy regime requires at its outset an agreement on the facts In this case the facts are scientific complex and contentious Governments have recognized this and have by using the IPCC set up institutional machinery to provide facts from a source and in a manner that they can accept The way in which the IPCC functions is unique in that it melds the way in which science achieves consensus with the way governments do at the international level Starting with a process to examine review and debate scientific findings leading to a consensus about scientific fact usually expressed as probabilities that the findings will hold over time the IPCC then concludes by using the kind of consensus development mechanism that the United Nations typically uses to achieve agreements leading to the formation of policy regimes The book examines the structure of the IPCC its composition and its procedures in order to achieve an understanding of its role and future

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