

# BETA DECAY SIMULATION

## BETA DECAY

Beta decay is a type of radioactive decay in which an unstable atomic nucleus transforms into a more stable one by emitting beta particles. This happens mostly due to the imbalance in the ratio of neutrons and protons inside the nucleus.

$$\beta^- \text{ decay} - n \rightarrow p + e^- + \bar{\nu}$$

$$\beta^+ \text{ decay} - p \rightarrow n + e^+ + \nu$$

$$\text{Electron capture} - p + e \rightarrow n + \nu$$

## BETA DECAY OF CO-60



# Beta Decay Simulation Answers

**Chao Zhang**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## Beta Decay Simulation Answers:

**Low Temperature Detectors for Neutrinos and Dark Matter** Klaus Pretzl, Norbert Schmitz, Leo Stodolsky, 2012-12-06  
For the last few years astrophysicists and elementary particle physicists have been working jointly on the following fascinating phenomena 1 The solar neutrino puzzle and the question What happens to the neutrinos on their way from the sun to the earth 2 The growing evidence that our universe is filled with about 10 times more matter than is visible and the question What is dark matter made of 3 The supernovae explosions and the question What do neutrinos tell us about such explosions and vice versa The experimental investigation of these phenomena is difficult and involves unconventional techniques These are presently under development and bring together such seemingly disparate disciplines as astrophysics and elementary particle physics on the one hand and superconductivity and solid state physics on the other This book contains the proceedings of a workshop held in March 1987 at which the above subjects and their experimental investigation were discussed The proposed experimental methods are very new They involve frontier developments in low temperature and solid state physics The book should be useful to researchers and students who actively work on these subjects or plan to enter the field It also offers the non expert reader with some physics background a good survey of the activities in this field  
Science & Technology Review ,2014     **Physics Briefs** ,1991     *Prentice Hall Chemistry* ,2000     Nuclear Science Abstracts ,1974     *Present and Future of Collider Physics* C. Bacci,1991     Energy Research Abstracts ,1989     **Science Instruction in the Middle and Secondary Schools** Eugene L. Chiappetta, Thomas R. Koballa, 2006 For science instruction in middle and secondary schools On Reserve for Edu 427     Petrophysics ,2005     **Mine Drainage and Surface Mine Reclamation** United States. Bureau of Mines, 1988     Government Reports Annual Index ,1989     *Physics of Particles and Nuclei Letters* ,2006     Theory and Design of Adaptive Filters John R. Treichler, C. Richard Johnson, Michael G. Larimore, 2001 Rather than superficially examining an extensive list of possible applications benefiting from adaptive filter use the authors examine four such problems in detail and review the common attributes that are shared with many other applications of adaptive filtering The authors develop the basic rules and algorithms for filter performance and provide tools for design along with an appreciation of the complexity of behavioral analysis Derivations and convergence discussions are kept to a basic level The presentation focuses on a few principles and applies them to a series of motivating examples that include in depth discussion of implementation aspects for filter design not found in other books Serves as a valuable reference for practicing engineers     *Vulcano Workshop 1996* Franco Giovannelli, G. Mannocchi (eds), 1997     **Memoirs of the National Defense Academy (Science and Engineering)** ,2013     *Government Reports Announcements & Index* ,1995     **Progress of Theoretical Physics** ,1971     **IBZ** ,1980     *Physics Letters* ,2000 General physics atomic physics molecular physics and solid state physics     Advanced Summer School in Physics 2006 Omar Miranda, 2007-02-21 The aim of the Advanced Summer School in Physics 2006 was to offer a series of courses which could be attended by graduate and

advanced undergraduate students This book collects the material presented throughout the course The courses covered several frontier topics on physics such as Rigged Hilbert spaces neutrinos nanostructures complex networks and colloidal systems All articles were peer reviewed

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