

7.2 PhET LAB: Alpha Decay



Name: _____

OBJECTIVE: explain the alpha decay process; complete radioactive decay equations; define and analyze half-life through applying the PhET "Alpha Decay" simulation at <http://phet.colorado.edu>.

Open/Run Alpha Decay at <http://phet.colorado.edu>.

Take 5 minutes to freely explore the sim.

Investigating Alpha Decay

1. Start on the **SINGLE ATOM** tab. Observe the decay of Polonium-211. After each decay, press the RESET NUCLEUS button to watch the process again. Write a description of alpha decay for Po-211.

Complete the following alpha decay equations, using <http://www.chemicalelements.com> as a resource:



7. How is alpha decay used in everyday life? (give at least two uses)

Investigating Half-Life of Alpha Decay

8. Click the **MULTIPLE ATOMS** tab. Execute five trials to determine the number of parent and daughter nuclei at one half-life. Complete the table below.

Parent Nuclei Po-211	Parent Nuclei (remaining nuclei) [yellow]	Daughter Nuclei (decayed nuclei) [black]
100		
80		
60		
40		
20		

9. Define half-life.

Phet Beta Decay Answers

Harry J Lipkin



Phet Beta Decay Answers:

The Preacher's Complete Homiletical Commentary on the Old Testament ,1892 *Evangelical Magazine and Gospel Advocate* ,1832 **The Preacher's Complete Homiletical Commentary** ,1892 **Numerical Tables for Beta-decay and Electron Capture** H. Behrens,J. Jänecke,1969 **Beta Decay** Sigmund Flügge,1955 **Numerical Tables for Beta-decay and Electron Capture** H. Behrens,1969 The Theory of Beta-Decay C. Strachan,2016-07-29 The Theory of Beta Decay covers the formulas theories probabilities and spectra of beta decay This book is divided into 2 parts compassing 12 chapters and starts with the introduction to the neutrino and the quantum theoretical background explaining the basic phenomenon of beta decay and the emission of electrons The subsequent chapters deal with the interaction and the transition probability as well as formulas of solutions These topics are followed by discussions on the developments in the non conservation of parity and helicity the two component theory of the neutrino possible invariance under time reversal and charge conjugation leptonic number of lepton charge and muon decay and other theories Other chapters describe the tentative theory of beta radiation the detection of the free neutrino and the selection rules for the beta disintegration The last chapters consider questions and experimental test about beta decay The chapters also look into the theories and helicity of neutrino the theory of the Fermi interaction and the test of the nature of the vector interaction in beta decay This book will be of value to physicists and researchers in the allied fields **Beta Decay / Betazerfall** S. Flügge,2012-12-06 **Beta Decay for Pedestrians** Harry J Lipkin,2021-09-09 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public To ensure a quality reading experience this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy to read typeface We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant *Re-evaluation of Optimal Parameters for Post-fission Beta Decay* James J. Griffin,1964

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