

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.

Alpha Decay Phet Answers

A. O. Barut,A. Sevgen



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A Dictionary of the English Language Samuel Johnson, 1853 *The Cottage Bible and Family Expositor:*
Isaiah-Revelation, 1842 *Evangelical Magazine and Gospel Advocate*, 1832 The Cottage Bible and Family Expositor
William Patton, 1834 **"The" Holy Bible, Containing the Old and New Testaments, According to the Authorised**
Version, 1845 The Holy Bible, 1844 *An History of the Holy Bible* Thomas Stackhouse, 1787 An Exposition on the
Old and New Testaments Matthew Henry, 1848 Theory of Alpha Decay W. Tobocman, 1962 **Alpha Decay from**
Deformed Nuclei Tore Berggren, Peter Olanders, 1987 Alpha Decay as a Fission-like Process D. N. Poenaru, M. Ivascu, A.
Sandulescu, 1979 **Contributions to the Theory of Alpha Decay** Per Olof Fröman, 1957 *Alpha Decay as a Weak*
Interaction A. O. Barut, A. Sevgen, 1973 Alpha Decay in Isotopes of Atomic Number Less Than 83, 1949 Some time ago we
started work in an attempt to observe alpha particle decay in isotopes of atomic number less than 83 In the first experiments
thin targets of gold leaf were bombarded with 190 MeV deuterons in the 184 inch cyclotron Two alpha decay periods were
observed in these targets one of 0.7 minutes half life and another of 4.3 minutes half life The alpha particle energies were 5.7
and 5.2 MeV respectively Chemical separations proved that the 4.3 minute period is due to a gold isotope and suggested that
the 0.7 minute period is due to a mercury isotope The mass numbers of these new isotopes have not been determined
However the results of excitation functions in the production of the gold isotope by bombarding gold and platinum with
protons suggest that its mass number lies in the range 185-188 The work on this isotope indicates that the alpha to electron
capture branching ratio is of the order of magnitude of 10⁻⁴ and that positron activity accompanies the 4.3 minute alpha
period **On the First Structure in Alpha Decay** Age Bohr, P.O. Fröman, Ben R. Mottelson, 1955 *Alpha Decay from*
Deformed Nuclei Tore Berggren, Peter Olanders, 1987 *Alpha Decay of Deformed Nuclei* Tina Louise Stewart, 1996
 Alpha Decay Joseph J. Devaney, 1950 **Theory of Alpha-decay** Joseph J. Devaney, 1953 Alpha Decay from
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