



carbon 14



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Carbon-14

Isotope

Overview

Practice problems

C or radiocarbon, is a radioactive isotope of carbon with an atomic nucleus containing 6 protons and 8 neutrons. Its presence in organic materials is the basis of the radiocarbon dating method pioneered by Willard Libby and colleagues (1949) to date archaeological, geological and hydrogeological samples.

Wikipedia <https://en.wikipedia.org/wiki/Carbon-14>

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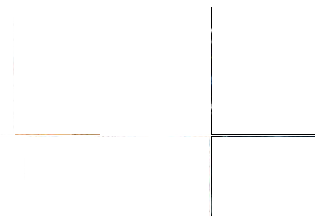
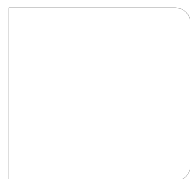
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Carbon-14 | Dating, Mass, & Half-life

carbon-14, the longest-lived radioactive isotope of carbon, whose decay allows the accurate dating of archaeological artifacts. The carbon-14 nucleus has ...



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About

Carbon-14, C-14, ¹⁴C or radiocarbon, is a radioactive isotope of carbon with an atomic nucleus containing 6 protons and 8 neutrons. Its presence in organic materials the basis of the radiocarbon dating method pioneered by Willard Libby and colleagues to date archaeological, geological and hydrogeological samples. [Wikipedia](#)

Protons: 6

Beta: 0.156476

Half-life (t_{1/2}): 5730±30 years

Isotope mass: 14.0032420 Da

Natural abundance: 1 part per trillion =

Neutrons (N): 8

Spin: 0+

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Carbon 14 - an overview

Carbon-14 is a short-lived radioactive nuclide compared to the longer-lived radioactive isotopes described previously (Table I). But, ¹⁴C (radioactive carbon or ...

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