

Modelling 3: Extension

PT14, Week 6

The abundances of ^{238}U and ^{235}U are in the ratio of 140:1. Equal amounts of each isotope existed in the Earth's crust at its formation. Estimate the age of the earth. The half-lives are: ^{238}U : 4.5×10^9 years, ^{235}U : 7.1×10^8 years.