

- Write two possible mechanisms for the radioactive decay of ^{83}Rb to ^{83}Kr .

Marks
5

The half-life of ^{83}Rb is 86.2 days. Calculate the activity (in Bq) of an isotopically pure 1.000 g sample of ^{83}Rb . (The molar mass of ^{83}Rb is $82.915110 \text{ g mol}^{-1}$.)

Answer:

How many days will it take for this sample to diminish to 1 % of its initial activity?

Answer: