



Guildford mathematicians

Alan Turing

O frabjous day! Callooh! Callay!

Charles Lutwidge Dodgson



Lewis Carroll

Isomer prediction: Soddy, Nature 99 (1917) 433 "We can have isotopes with identity of atomic weight, as well as of chemical character, which are different in their

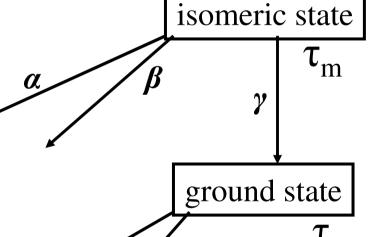
stability and mode of breaking up."

explanation: von Weizsäcker, Naturwissenshaften 24 (1936) 813

at age 24



Frederick Soddy



isomer half-lives range from 10⁻⁹ seconds to >10¹⁶ years

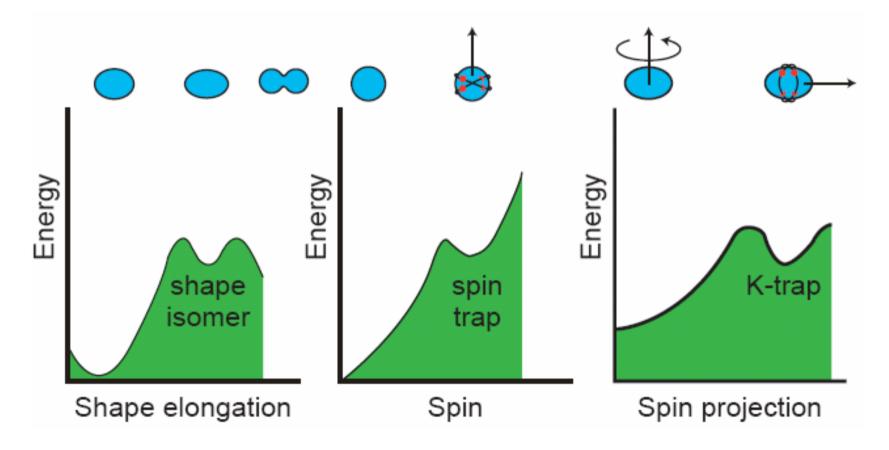


Carl von Weizsäcker

importance of spin

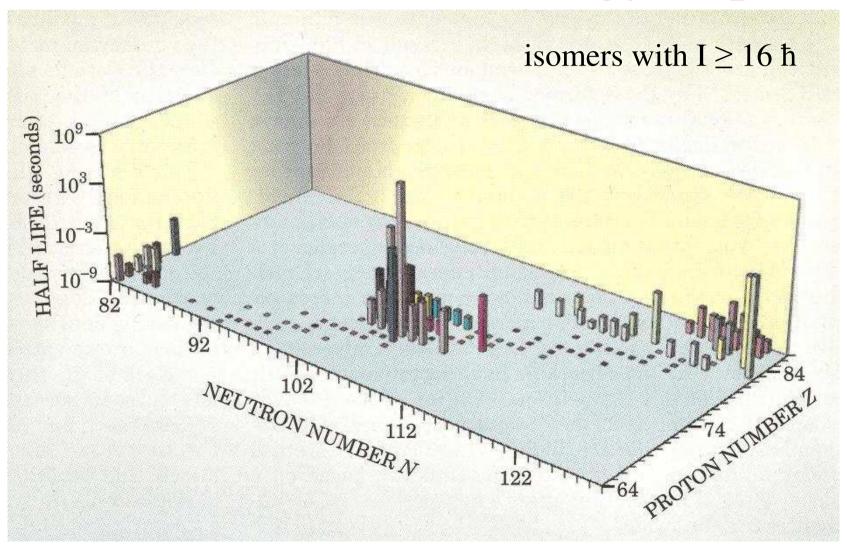
Nuclear isomers: energy traps

excited state half-lives ranging from nanoseconds to years



Walker and Dracoulis, Nature 399 (1999) 35

Nuclear isomers: energy traps



Walker and Carroll, Physics Today (June 2005) 39



George Dracoulis

40 years of nuclear physics research: $^{16}O \rightarrow ^{239}Pu$

180 nuclides studied

Isomer workshop in honour of George Dracoulis