

Example and Test File for **nucleardata** Package

<sup>184</sup> Au Halflife Data	
Unit	Value
ns	47 600 000 000.0 ns
us	47 600 000.0 μs
ms	47 600.0 ms
s	47.6 s
min	0.793 333 333 333 333 3 min
hr	0.013 222 222 222 222 224 h
d	0.000 550 925 925 925 926 d
y	1.508 352 979 947 778 × 10 <sup>-6</sup> yr
My	1.508 352 979 947 778 × 10 <sup>-12</sup> My
Other commands applied to <sup>40</sup> Ca	
symbol	Ca
Z	20
name	calcium
Name	Calcium
Spin/parity	7/2-
mass excess	-35137.76
atomic mass (u)	40.962278
atomic mass (u)	40.96
atomic mass (keV)	38156443.937
atomic mass (keV)	38156443.94
atomic mass (MeV)	38156.443937
atomic mass (MeV)	38156.44394
nuclear mass (u)	40.951307
nuclear mass (keV)	38146223.9
nuclear mass (MeV)	38146.223937
BE/A	8.547 MeV
Q <sub>α</sub>	-6.615016 MeV
Q <sub>β-</sub>	-6.49537 MeV
Q <sub>β+</sub>	-0.60069 MeV
Q <sub>ε</sub>	0.42131 MeV