## $^{203}$Ra $\alpha$ decay (24 ms) 2005Uu02,1996Le09

| Type | Author | History Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | Balraj Singh | NDS 108, 79 (2007) | 15-Oct-2006 |

Parent: $^{203}$Ra: E=220 *90*; $J^\pi$=(13/2$^+$); $T_{1/2}$=24 ms *+6−4*; Q($\alpha$)=7730 *50*; %$\alpha$ decay≈100.0
$^{203}$Ra-$T_{1/2}$: From 2005Uu02. Other: 33 ms *+22−10* (1996Le09).
$^{203}$Ra-E: From $\alpha$ energy difference (2003Au02,evaluation).
Source produced by $^{175}$Lu($^{35}$Cl,7n). Measured position-correlated $\alpha$ decay chain (6 events).

### $^{199}$Rn Levels

| E(level) | $J^\pi$ | Comments |
|---|---|---|
| 180 *70* | (13/2$^+$) | E(level): from $\alpha$ energy difference (2003Au02,evaluation).<br>$J^\pi$: from 'Adopted Levels'. |

### $\alpha$ radiations

| E$\alpha$ | E(level) | I$\alpha$[†] | Comments |
|---|---|---|---|
| 7612 *8* | 180 | 100 | E$\alpha$: from 2005Uu02. The 7612$\alpha$ correlated with 7060$\alpha$ from $\alpha$ decay of $^{199}$Rn isomer and 6700$\alpha$ from $\alpha$ decay of $^{195}$Po isomer (2005Uu02). Other: E$\alpha$=7615 *20* (1996Le09). |

[†] For absolute intensity per 100 decays, multiply by ≈1.