

Adopted Levels

| <u>Type</u>     | <u>Author</u> | <u>History<br/>Citation</u> | <u>Literature Cutoff Date</u> |
|-----------------|---------------|-----------------------------|-------------------------------|
| Full Evaluation | Jean Blachot  | NDS 111,717 (2010)          | 1-Dec-2009                    |

$Q(\beta^-) = -1.40 \times 10^4$  syst;  $S(n) = 1.37 \times 10^4$  syst;  $S(p) = 2.3 \times 10^3$  syst;  $Q(\alpha) = 2.9 \times 10^3$  syst [2012Wa38](#)

Note: Current evaluation has used the following Q record  $1.37 \times 10^4$  SY2.2E+3 SY2.9E+3 syst [2003Au03,2009AuZZ](#).

$\Delta S(n) = 718$ ,  $\Delta S(p) = 499$ ,  $\Delta Q(\alpha) = 414$  ([2003Au03](#)).

Source produced by  $^{58}\text{Ni}(^{58}\text{Ni},X)$ ,  $^{63}\text{Cu}(^{58}\text{Ni},X)$  [1995Gu01](#). Measured  $\beta$  delayed gammas. Mass separation.

 $^{116}\text{Ba}$  Levels

| <u>E(level)</u> | <u>J<math>\pi</math></u> | <u>T<math>_{1/2}</math></u> | <u>Comments</u>   |
|-----------------|--------------------------|-----------------------------|---|
| 0               | 0 <sup>+</sup>           | 1.3 s 2                     | $\% \varepsilon + \% \beta^+ = 100$ ; $\% \beta^+ p = 3$ I ( <a href="#">1997Ja12</a> )<br>T $_{1/2}$ : from <a href="#">1997Ja12</a> , supersedes 0.3 2 s ( <a href="#">1995Gu01</a> ) same group. |