

$^{116}\text{Sn}(\text{p},\text{p}'\gamma)$ 1976Ba32,1978Ju02,1981Jo03

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

E=6.928 MeV, L=0 IAR. Only low-lying states excited via the s1/2 IAR in ^{116}Sn .
 Measured: ce (magnetic lens + Si(Li)).

 ^{116}Sn Levels

| E(level) [†] | J ^π [‡] | T _{1/2} | Comments |
|-----------------------|-----------------------------|------------------|--|
| 0.0 | 0 ⁺ | stable | |
| 1293.5 | 2 ⁺ | | |
| 1756.9 | 0 ⁺ | 45 ps 10 | ce(K)-1757γ/ce(K)-463g=0.38 8. T _{1/2} : from 1978Ju02. |
| 2027.5 | 0 ⁺ | 160 ps 20 | ce(K)-2027γ/ce(K)-734g=1.18 20. T _{1/2} : from 1978Ju02. |
| 2225 | 2 ⁺ | | |
| 2545.4 | (0 ⁺) | | E(level): seen only by 1981Jo03. |

[†] Rounded-off values from Adopted Levels, except for the 2545 level.

[‡] From Adopted Levels.

γ(^{116}Sn)

| E _γ [‡] | E _i (level) | J _i ^π | E _f | J _f ^π | Mult. [†] |
|-----------------------------|------------------------|-----------------------------|----------------|-----------------------------|--------------------|
| 463.2 | 1756.9 | 0 ⁺ | 1293.5 | 2 ⁺ | |
| 733.9 | 2027.5 | 0 ⁺ | 1293.5 | 2 ⁺ | |
| 931.8 | 2225 | 2 ⁺ | 1293.5 | 2 ⁺ | |
| 1251.8 5 | 2545.4 | (0 ⁺) | 1293.5 | 2 ⁺ | |
| 1293.6 | 1293.5 | 2 ⁺ | 0.0 | 0 ⁺ | |
| 1757.1 | 1756.9 | 0 ⁺ | 0.0 | 0 ⁺ | E0 |
| 2027.3 | 2027.5 | 0 ⁺ | 0.0 | 0 ⁺ | E0 |

[†] From relative I_γ and ce(K).

[‡] Round-off values from adopted gammas, except for the 1251γ which is from 1981Jo03.

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Level Scheme

