## Be($^{55}$Sc,P),($^{56}$Ti,2p) 2013St20

History

| Type | Author | Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | Yang Dong, Huo Junde | NDS 121, 1 (2014) | 20-Jun-2014 |

A $^{70}$Zn primary beam at 345 MeV/nucleon was delivered to the BigRIPS separator (brs), where a radioactive beam containing $^{55}$Sc and $^{56}$Ti produced and focused on a 10 mm thick Be target which was inserted in a gamma-ray detector array, measured in-beam Eg, I$\gamma$, (fragment)$\gamma$-coin, shell model calculation using the modified GXPF1B Hamiltonian.
see also 2013St15.

### $^{54}$Ca Levels

| E(level) | J$^{\pi}$[†] |
|---|---|
| 0.0 | $0^+$ |
| 2043 *19* | $(2^+)$ |
| 3699 *28* | $(3^-)$ |

[†] From systematics of even-even nuclei.

### $\gamma(^{54}Ca)$

| E$_\gamma$ | E$_i$(level) | J$_i^\pi$ | E$_f$ | J$_f^\pi$ |
|---|---|---|---|---|
| [x]1184 *24* | | | | |
| 1656 *20* | 3699 | $(3^-)$ | 2043 | $(2^+)$ |
| 2043 *19* | 2043 | $(2^+)$ | 0.0 | $0^+$ |

[x] $\gamma$ ray not placed in level scheme.

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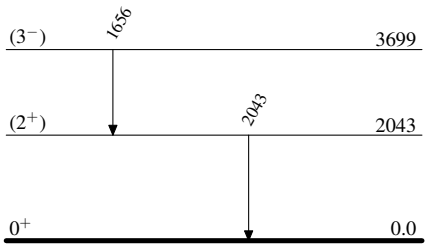
### Level Scheme




$^{54}_{20}Ca_{34}$