

${}^{44}\text{Ca}({}^9\text{Be}, {}^9\text{Be}')$ 1981Hn04

| Type | Author | History | Citation | Literature Cutoff Date |
|-----------------|--------------------------------------------|---------|----------------------|------------------------|
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1981Hn04: E=40 MeV 300 nA ${}^9\text{Be}$ beam produced from the Florida State University Super FN tandem Van de Graaff accelerator. Target of enriched ${}^{44}\text{Ca}$ (98.6%) evaporated onto carbon backing, ${}^{44}\text{Ca}$ thickness of $300 \mu\text{g}/\text{cm}^2$. $\Delta\text{E-E}$ telescopes of silicon detectors. Measured $\sigma(\text{E},\theta)$. Deduced J^π , L from DWBA analysis for 1160 keV level.

 ${}^{44}\text{Ca}$ Levels

| E(level) | J^π | L | Comments |
|----------|---------|---|--------------------------------|
| 0 | 0^+ | | J^π : from Adopted Levels. |
| 1160 | 2^+ | 2 | $\beta_2\text{R}=1.02$ fm. |