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 ${}^2\text{H}({}^8\text{B}, {}^9\text{C})$  **2001Be45**

<u>Type</u>	<u>Author</u>	<u>History</u>	<u>Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	J. H. Kelley, B. Grees		ENSDF	31-July-2020

**2001Be45:**  ${}^2\text{H}({}^8\text{B}, {}^9\text{C})$ , Using an  $E=14.4$  MeV/nucleon  ${}^8\text{B}$  beam impinging on a  $\text{Cd}_2$  target at the RIKEN/RIPS facility, they detected reaction  ${}^9\text{C}$  at forward directions in a plastic  $\Delta E$ - $E$  telescope along with the corresponding neutrons, at backwards angles, using an array of 8 BC401 plastic scintillators. The analysis determined the  ${}^9\text{C}$  excitation spectrum, and the asymptotic normalization coefficients (ANC) were deduced via DWBA analysis. Using the ANCs, the astrophysically relevant  ${}^8\text{B}(p, \gamma)$  reaction was analyzed.

 ${}^9\text{C}$  LevelsE(level)

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