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 ${}^{232}\text{Th}({}^{22}\text{Ne}, {}^{17}\text{C})$  [1977Ar06](#)

<u>Type</u>	<u>Author</u>	<u>History</u>	<u>Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	J. H. Kelley, G. C. Sheu		ENSDF	01-May-2017

[1977Ar06](#): The authors studied the systematics of Deep Inelastic Transfer reactions (DIT) by using 172 MeV  ${}^{22}\text{Ne}$  ions impinging on a  ${}^{232}\text{Th}$  target and analyzing the reaction dynamics of nuclides detected at  $\theta=12^\circ$ . The reaction products are momentum analyzed in a magnet and uniquely identified via  $\Delta E$ -E techniques. Data from  $\theta=40^\circ$  are included in the analysis. The results, which included  ${}^{17}\text{C}$  production, confirmed that DIT is the production mechanism for most light nuclides in this reaction at  $\theta=12^\circ$ . Also see ([1973Ar08](#))  $E({}^{22}\text{Ne})=174$  MeV and  $\theta=40^\circ$ .

 ${}^{17}\text{C}$  LevelsE(level)

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