

²³²Th(²²Ne,¹³N),¹⁵⁴Sm(¹⁶O,¹³N)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu and J. E. Purcell		NDS 198,1 (2024)	1-Aug-2024
1977Ar06 : ²³² Th(²² Ne, ¹³ N): The transfer reaction products resulting from E(²² Ne)=172 MeV bombardment of a 2.5 mg/cm ² metallic ²³² Th foil were measured at Dubna. The reaction products were momentum analyzed in a magnetic spectrometer, positioned at either θ=12° or 40°, and then focused on a ΔE-E Si detector telescope, which provided particle identification. ¹³ N was identified.				
2022Ro09 : ¹⁵⁴ Sm(¹⁶ O, ¹³ N) E=85 MeV; measured reaction products using a ΔE-E telescope at the Bhabha Atomic Research Centre in Mumbai. Obtained differential cross sections for θ _{c.m.} ≈55° to 75°. Discussed multi-nucleon transfer reaction mechanism.				

¹³N Levels

E(level)
0