⁴⁸Ca(¹⁸O, ¹⁹N) **1983Ho08**

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1983Ho08: Two measurements have been performed at the Australian National University 14UD Pelletron accelerator, where either an E(18 O)=117 MeV beam impinged on a 50 μ g/cm 48 Ca target or an E(18 O)=119 MeV beam impinged on an 85 μ g/cm 248 Ca target. Reaction products were momentum analyzed using an Enge split-pole spectrometer with a mean reaction angle of θ_{lab} =6° or 5°, respectively. The $\Delta\Omega$ =3.4 msr in both measurements. The differential cross sections for 19 N production is σ =47 μ b/sr (E(18 O)=119 MeV). The ground state Q(β -)values deduced from the reactions are in good agreement and resulted in Δ M(19 N)=15.872 MeV 20.

¹⁹N Levels

E(level) Comments

0 $\Delta M = 15.872 \text{ MeV } 20 \text{ was deduced.}$