²³²Th(P,²⁰N) **1988Wo09**

| | History | | |
|-----------------|--------------------------|----------|------------------------|
| Туре | Author | Citation | Literature Cutoff Date |
| Full Evaluation | C. G. Sheu, J. H. Kelley | ENSDF | 31-Dec-2018 |

1986Vi09,1988Wo09: Mass measurements of several neutron-rich light nuclei were carried out using an improved fitting technique for deducing nuclear mass values from measurements of time-of-flight (ToF) through the LANL/TOFI spectrometer; the ToF through the spectrometer depends on the mass-to-charge ratio and is independent of ion velocity.

The rare isotope species were produced by proton spallation reactions on a Th target. Typical flight times of 500 ns, with timing uncertainties near 180 ps yielded typical mass-to-charge resolutions of 3.6×10^{-4} from analysis of multiple runs that involved multiple charge states.

A ²⁰N mass excess of 21.78 MeV *12* was deduced in (1988Wo09), which compares with 21.64 MeV *26* which was previously deduced in (1986Vi09).

See also (1988ViZP,1993WoZZ).

²⁰N Levels

E(level)

0

1

 ${}^{20}_{7}\mathrm{N}_{13}$