^{11}N

Benenson et al. discovered ^{11}N in 1974 in "T =$\frac{3}{2}$ states in mass-11 nuclei" (1974Be20). A ^{14}N gas target was bombarded with a 70 MeV ^{3}He beam at Michigan State University and ^{11}N was produced in the (^{3}He,^{6}He) transfer reaction. ^{11}N was identified in a magnetic spectrograph by measuring the time-of-flight in combination with a magnetic analysis. "The kinematic effects in the ^{14}N(^{3}He,^{6}He)^{11}N reaction are quite marked even at forward angles, and therefore the observation of the same width and energy of a peak at all three angles is a strong indication that a ^{11}N state is being studied... The level parameters for the peak near channel 25 are mass excess = 25.23±0.10 MeV and Γ = 740±100 keV."

Adapted from reference (2012Th01)

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