^{18}Na

Zerguerras et al. discovered ^{18}Na as reported in the 2004 paper "Study of light proton-rich nuclei by complete kinematics measurements" (2004Ze05). A secondary ^{20}Mg beam was produced by projectile fragmentation with the GANIL SISSI solenoids and ALPHA spectrometer from a primary 95 MeV/nucleon ^{24}Mg beam. ^{18}Na was identified from the invariant mass obtained from the ^{17}Ne and proton events. "To construct the invariant-mass spectrum of ^{18}Na, ^{17}Ne + p events were analysed. The result is shown in [the figure]. A two-peak structure is clearly visible with mass excess values of 24.19(16) MeV and 25.04(17) MeV."

Adapted from reference (2012Th10)

2004Ze05 T. Zerguerras, B. Blank, Y. Blumenfeld, T. Suomijarvi *et al.*, Eur. Phys. J. A **20**, 389 (2004).

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