⁴⁰Ca(³He, ⁸Li) **1976Be08**

1976Be08: ³⁵K isotope discovery. ⁴⁰Ca(³He, ⁸Li)³⁵K is studied using 73.7- and 75.8-MeV ³He beams produced by the Michigan State University cyclotron. Targets were 370 and 190 μg/cm² enriched ⁴⁰Ca on a 20 μg/cm² natural carbon backing. ⁸Li particles were detected using a scintillator-proportional counter detector system at the focal plane of the Enge split-pole spectrograph. Measured the cross section for producing ³⁵K g.s. and the mass excess of ³⁵K. Also see 1976BeXJ and 1976BeZJ.

³⁵K Levels

E(level)
$$J^{\pi^{\dagger}}$$
0
1560 40 1/2⁺
2690 50 (5/2⁺)

1

 $^{^{\}dagger}$ As given in 1976Be08 based on mirror levels in 35 S.