## <sup>48</sup>Ca(<sup>3</sup>He, <sup>7</sup>Be) **1976Cr03**

Type Author Citation Literature Cutoff Date
Full Evaluation Jun Chen and Balraj Singh NDS 190,1 (2023) 20-Jun-2023

1976Cr03: E( $^3$ He)=70 MeV  $^3$ He beam produced from the Michigan State University isochronous cyclotron. Targets of 200  $\mu$ g/cm $^2$  97.16% enriched  $^{48}$ Ca onto gold and silver backings. Reaction products analyzed by an Enge split-pole magnetic spectrograph, FWHM=66 keV and detected in the focal plane by a plastic scintillator behind a gas proportional counter. Measured  $\sigma$ (E( $^7$ Be), $\theta$ ). Deduced levels.

## <sup>44</sup>Ar Levels

E(level)	$J^{\pi \dagger}$	$d\sigma/d\Omega \ (\mu b/sr)^{\ddagger}$
0	0+	1.0
750 <i>30</i>	$0_{+}$	2.0
1610 <i>30</i>	2+	1.0
3480 <i>30</i>		1.3
3980 <i>50</i>		0.7
4430 40		0.8

<sup>&</sup>lt;sup>†</sup> Predicted from Shell model calculations. See also the thesis by 1975StZH.

<sup>&</sup>lt;sup>‡</sup> Measured at  $\theta$ =7°.