

$^{54}\text{Fe}({}^6\text{Li}, {}^6\text{Li}'), (\text{pol } {}^7\text{Li}, {}^7\text{Li}')$ [1992Ku08](#), [1979Ke05](#), [1977KeZR](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yang Dong, Huo Junde		NDS 121, 1 (2014)	20-Jun-2014

Additional information 1.

[1979Ke05](#), [1977KeZR](#): $^{54}\text{Fe}({}^6\text{Li}, {}^6\text{Li}), ({}^6\text{Li}, {}^6\text{Li}')$ also includes $^{54}\text{Fe}({}^7\text{Li}, {}^7\text{Li}), ({}^7\text{Li}, {}^7\text{Li}')$, $E=36, 42$ and 48 MeV. $E({}^6\text{Li})$ is higher 2 MeV than $E({}^7\text{Li})$, so they have approximately the same wave number. Measured $\sigma(\theta)$, optical-model and DWBA analyses of elastic and inelastic data, respectively. Detectors: scattering chamber, FWHM=100 keV; Enge spectrograph, FWHM=60 keV.

[1992Ku08](#): $^{54}\text{Fe}(\text{pol } {}^7\text{Li}, {}^7\text{Li}), (\text{pol } {}^7\text{Li}, {}^7\text{Li}')$, $E=50$ and 70 MeV. Measured $d\sigma/d\Omega$ and analyzing powers, coupled-channel analyses. Detectors: a system of position-sensitive, solid-state detector telescopes.

 ^{54}Fe Levels

E(level) [†]	Comments
0	
1410	$\beta_{LR}=0.62$.
2540	
2950	
3160	

[†] From [1992Ku08](#).