## $^{51}$V($^{6}$Li,d) E=32 MeV 1979An05

| Type | Author | History Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | Huo Junde | NDS 109, 787 (2008) | 30-Apr-2007 |

E=32 MeV, split-pole magnetic spectrograph and sonic spark counter system; measured $\sigma$(ED,$\theta$); DWBA analysis; shell-model calculation of strengths.

### $^{55}$Mn Levels

| E(level) | $J^{\pi}$[†] | L | Comments |
|---|---|---|---|
| 0.0 | 5/2$^-$ | 2+4+6 | S: L=$^{2,}$S=0.001054; L=$^{4,}$S=0.000030; L=$^{6,}$S=0.000146. |
| 130 | 7/2$^-$ | 0+2+4+6 | S: L=$^{0,}$S=0.001435; L=$^{2,}$S=0.000200; L=$^{4,}$S=0.000463; L=$^{6,}$S=0.000535. |
| 980 | 9/2$^-$ | 2+4+6+8 | S: L=$^{2,}$S=0.001350; L=$^{4,}$S=0.0; L=$^{6,}$S=0.000008; L=$^{8,}$S=0.000487. |
| 1290 | 11/2 | 2+4+6+8 | S: L=$^{2,}$S=0.000653; L=$^{4,}$S=0.000381; L=$^{6,}$S=0.000499; L=$^{8,}$S=0.000834. |
| 1530 | 3/2$^-$ | 2+4 | S: L=$^{2,}$S=0.000272; L=$^{4,}$S=0.000832. |
| 1880 | 7/2$^-$ | 0+2+4+6 | S: L=$^{0,}$S=0.000062; L=$^{2,}$S=0.000794; L=$^{4,}$S=0.000293; L=$^{6,}$S=0.000382. |

[†] Configuration=(($\pi$ f7/2)$^5$($\nu$ 2p3/2,2p1/2,f5/2)$^2$) for all Adopted Levels. Based on $\sigma$(E(d),$\theta$) measurements, DWBA analysis, and extractions of S.