

The seventh week

sfresco

```
cal.in
NAMELIST
&FRESCO
      hcm=0.01 rmatch=60.0 jtmax=60 absend=0.0010
      thmin=2.0 thmax=180.0 thinc=2.00
      smats=2 xstabl=1
      elab=130.00 /

&PARTITION namep='p'   massp= 16.00  zp=  8.00
           namet='Ni60'  masst=208.00  zt= 82.00  qval=-0.000  nex=1 /
&STATES
      jp=0.0 bandp=1 ep=0.0000 cpot=1 jt=0.0
      bandt=1 et=0.0000 fexch=F/
&partition /

&POT kp=1 type=0 p1= 16.00 p2=208.00 p3= 1.200 /
&POT kp=1 type=1 shape=9 p1=1 p2=1 p3=1 /
&pot /
  &overlap /
  &coupling /
```

```

'cal.in' 'cal.out' 2 1
&variable
  kind=1 name='V' kp=1 pline=2 col=1 valmin=0.5 valmax=1.0 step=0.01/
&variable
  kind=1 name='W' kp=1 pline=2 col=2 valmin=0.01 valmax=1.0 step=0.01/

&data
type=0 iscale=2 idir=1 lab=F abserr=T/
  32.299999999999997      1.0329999999999999      0.25824999999999998
  35.600000000000001      1.0489999999999999      0.26224999999999998
  38.799999999999997      0.98450000000000004      0.24612500000000001
  41.000000000000000      1.0529999999999999      0.26324999999999998
  43.299999999999997      1.1250000000000000      0.28125000000000000
  45.200000000000003      1.2669999999999999      0.31674999999999998
  47.399999999999999      1.2529999999999999      0.31324999999999997
  49.500000000000000      0.95330000000000004      0.23832500000000001
  50.500000000000000      0.91720000000000002      0.22930000000000000
  51.600000000000001      0.7349999999999999      0.18375000000000000
  52.799999999999997      0.61260000000000003      0.15315000000000001
  53.500000000000000      0.49070000000000003      0.12267500000000001
  54.399999999999999      0.40360000000000001      0.10090000000000000
  55.700000000000003      0.34530000000000000      8.632499999999999E-002
  56.799999999999997      0.25580000000000003      6.3950000000000007E-002

```

```
search.in <---- file with search parameters
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min
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fix
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migrad
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end
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q
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show
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plot
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potential

2001	0.010	0.000
-849.22254295678420		-6.4129172610330691
-849.22246714941275		-6.4129410621885476
-849.22223971638005		-6.4130124692539123
-849.22186062493051		-6.4131314930254462
-849.22132982043286		-6.4132981515057743
-849.22064722638584		-6.4135124699038641
-849.21981274441009		-6.4137744806373620
-849.21882625427702		-6.4140842233282784
-849.21768761395833		-6.4144417447939626
-849.21639665946145		-6.4148470990846480
-849.21495320480403		-6.4153003474913826
-849.21335704201090		-6.4158015585501147
-849.21160794109028		-6.4163508080487874
-849.20970565001244		-6.4169481790364289
-849.20764989467727		-6.4175937618336247
-849.20544037888135		-6.4182876540436631
-849.20307678441623		-6.4190299605359744
-849.20055877104755		-6.4198207934556066
-849.19788597625461		-6.4206602722839339
-849.19505801518415		-6.4215485238545780
-849.19207448061172		-6.4224856823675189

拟合结果























