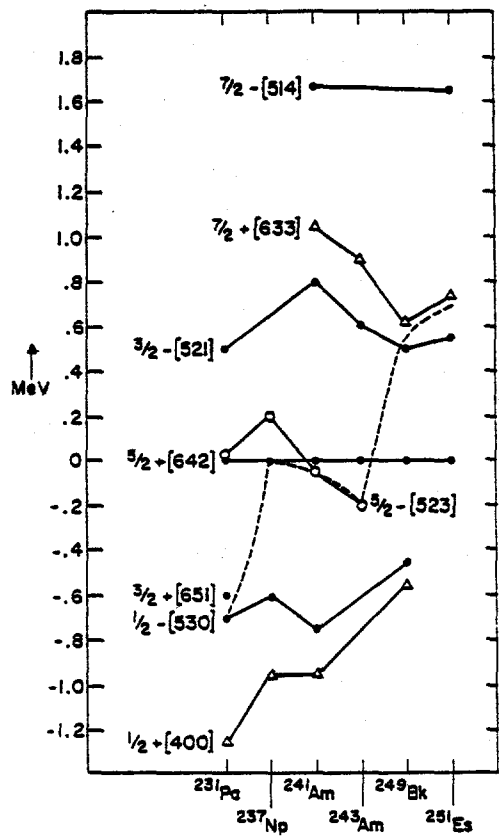
1.8
1.6
1.4
1.2
1.0
.8
.6
.4
.2
0
-.2
-.4
-.6
-.8
-1.0
-1.2
MeV
7/2 - [514]
7/2 + [633]
3/2 - [521]
5/2 + [642]
5/2 - [523]
3/2 + [651]
1/2 - [530]
1/2 + [400]
231Pa
237Np
241Am
243Am
249Bk
251Es

Fig. 1

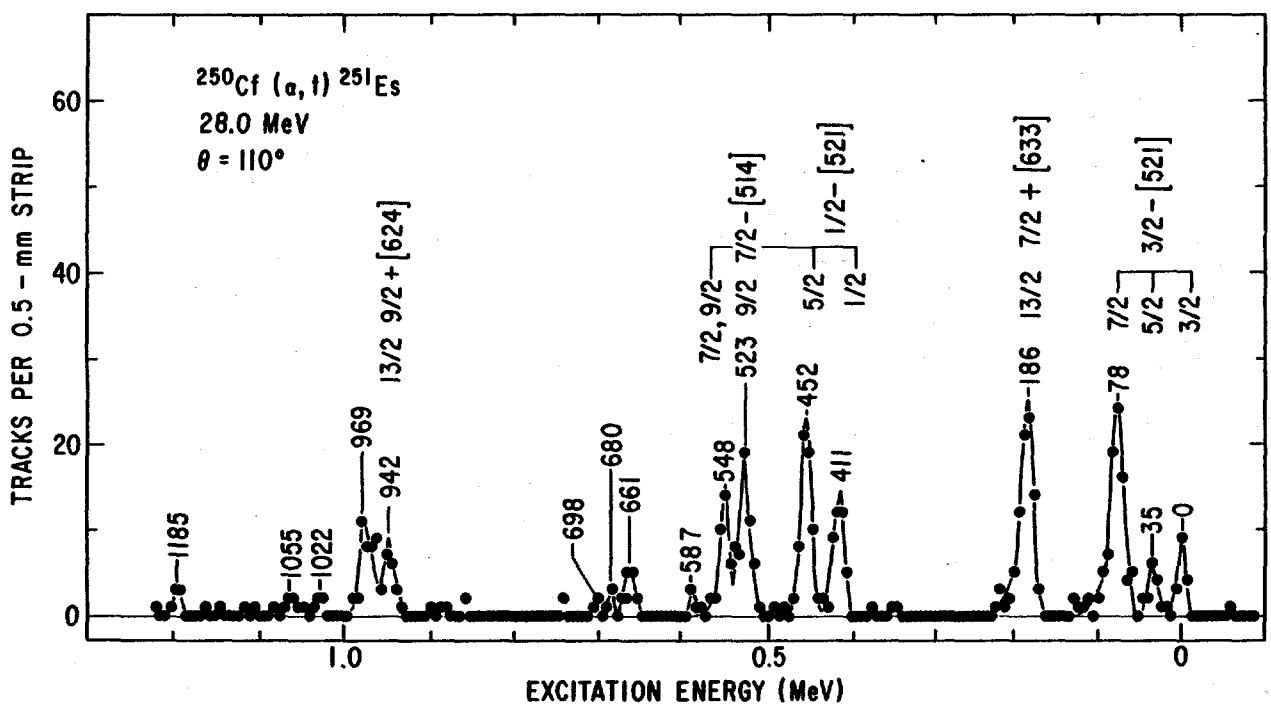
250Cf (α, t) 251Es
28.0 MeV
θ = 110°
TRACKS PER 0.5 - mm STRIP
EXCITATION ENERGY (MeV)
1.0
0.5
0
60
40
20
0
1185
1055
1022
969
942
13/2 9/2 + [624]
698
680
661
587
548
7/2, 9/2
523 9/2 7/2 - [514]
452
5/2
411
1/2
1/2 - [521]
186
13/2 7/2 + [633]
78
7/2
35
5/2
0
3/2
3/2 - [521]

Fig. 2