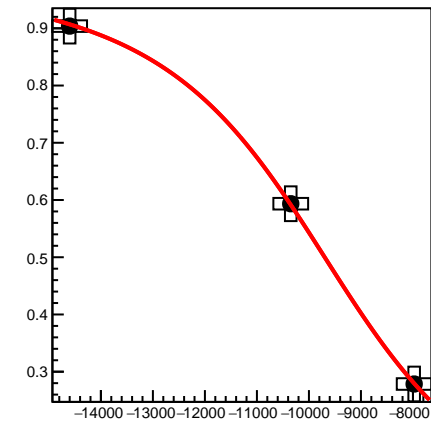
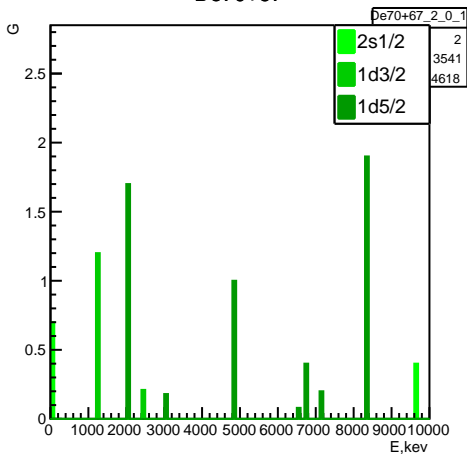
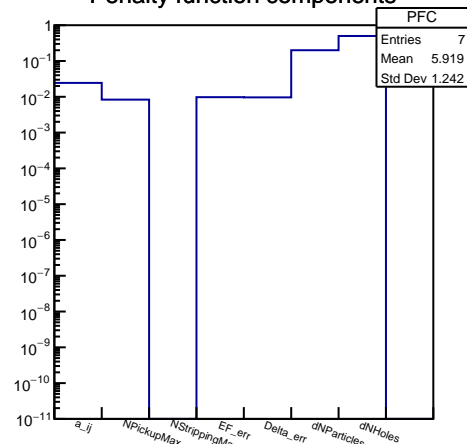


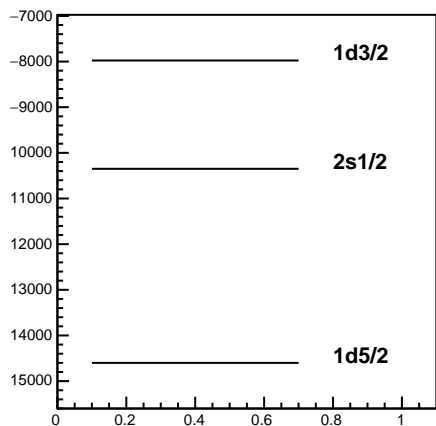
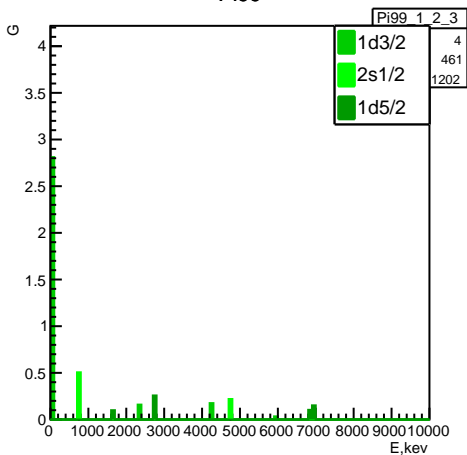
De70+67



Penalty function components



Pi99



Experiment: De70+67 (11) Pi99 (10)

neutron transfer

n separation energy A:10607.9, A+1: 6586.5f

 $E_F: -9696.81 \pm 21.7256$ keV $\Delta: 3501.91 \pm 54.7646$ keV

penalty: 0.144649

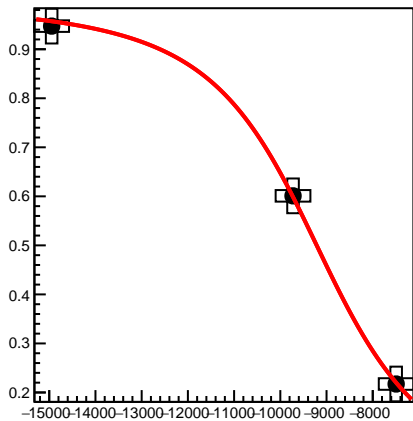
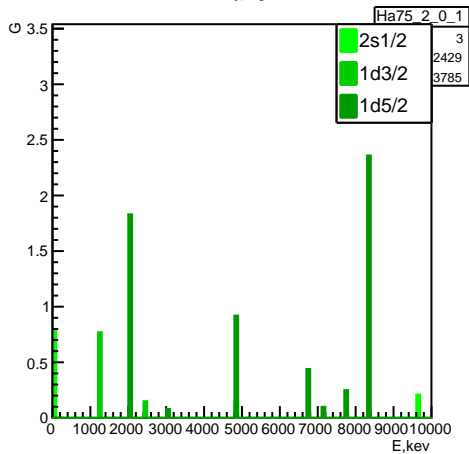
SPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-10349.7 2s1/2 0.5935 0.913

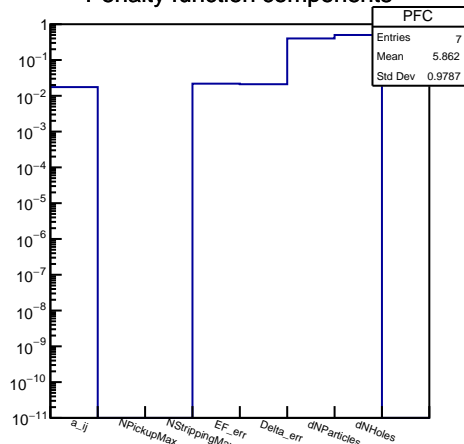
-7976.88 1d3/2 0.2785 1.148

-14600.7 1d5/2 0.903833 1.01233

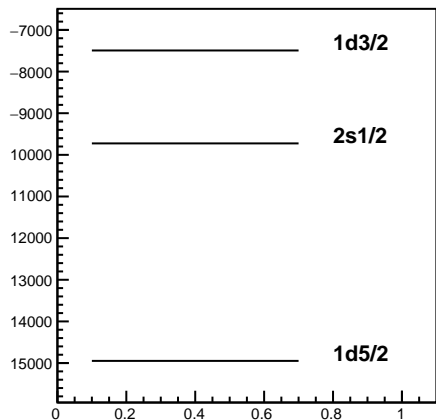
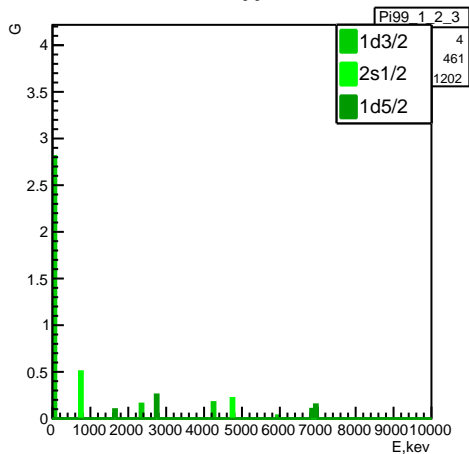
Ha75



Penalty function components



Pi99



Experiment: Ha75 (12) Pi99 (10)

neutron transfer

n separation energy A:10607.9, A+1: 6586.5

 $E_F: -9213.16 \pm 48.5758$ keV $\Delta: -2543.57 \pm 119.742$ keV

penalty: 0.18469

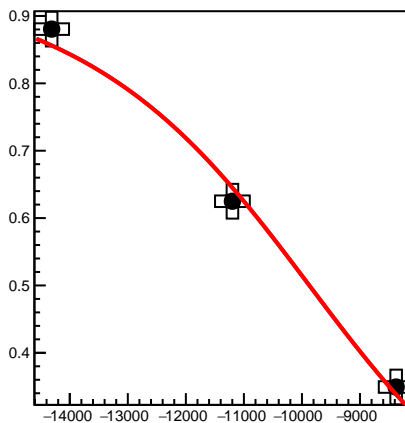
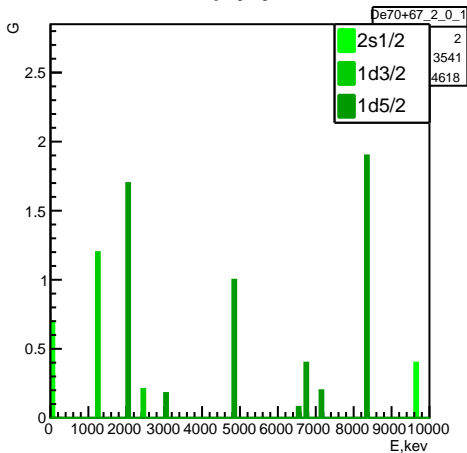
SPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-9725.14 2s1/2 0.601 0.928

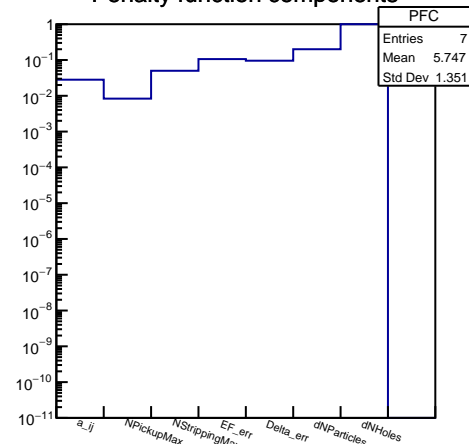
-7493.63 1d3/2 0.21725 1.0255

-14948 1d5/2 0.947167 1.099

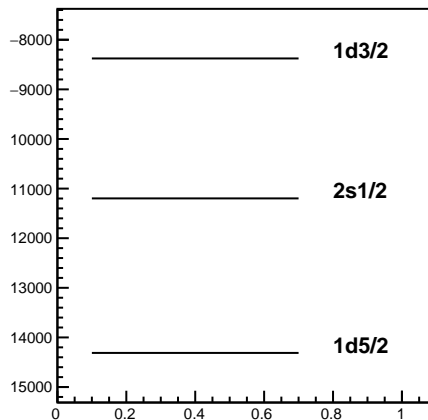
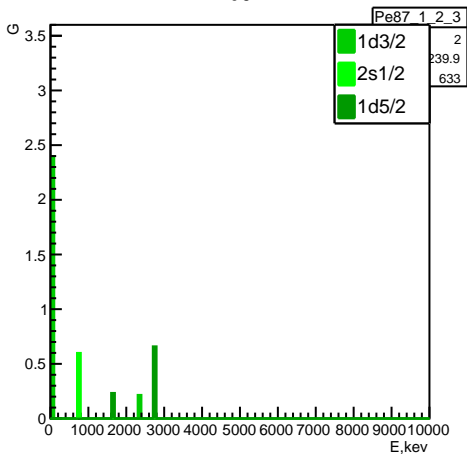
De70+67



Penalty function components



Pe87



Experiment: De70+67 (11) Pe87 (5)

neutron transfer

n separation energy A:10607.9, A+1: 6586.55

E_F: -9872.15 \pm 236.041 keV Δ : 4372.3 \pm 543.302 keV

penalty: 0.286177

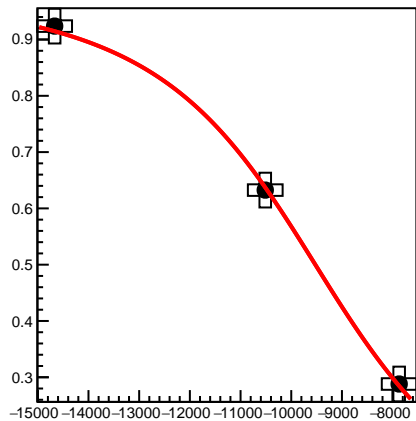
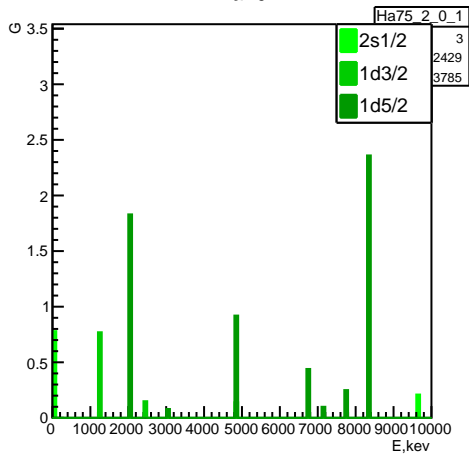
SPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-11197.7 2s1/2 0.625 0.85

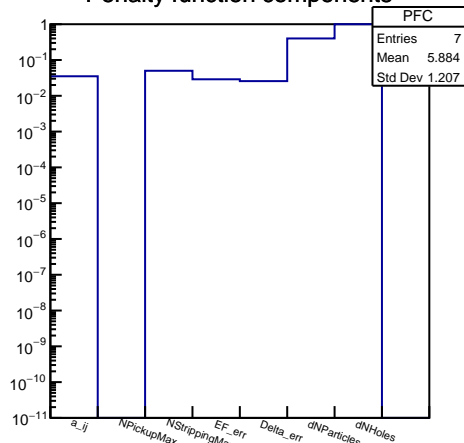
-8376.72 1d3/2 0.34925 1.0065

-14312.3 1d5/2 0.8805 1.059

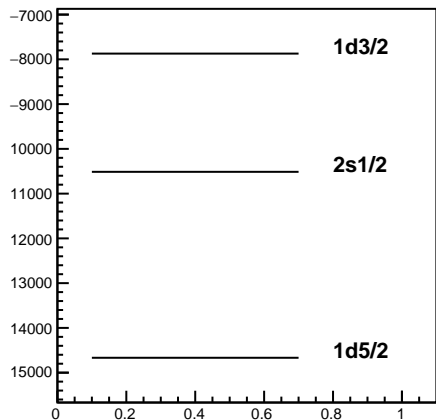
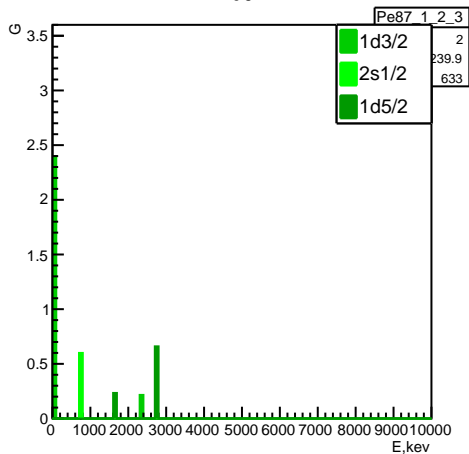
Ha75



Penalty function components



Pe87



Experiment: Ha75 (12) Pe87 (5)

neutron transfer

n separation energy A:10607.9, A+1: 6586.5

E_F : -9524.81 \pm 64.3404 keV

Δ : -3463.71 \pm 146.132 keV

penalty: 0.296101

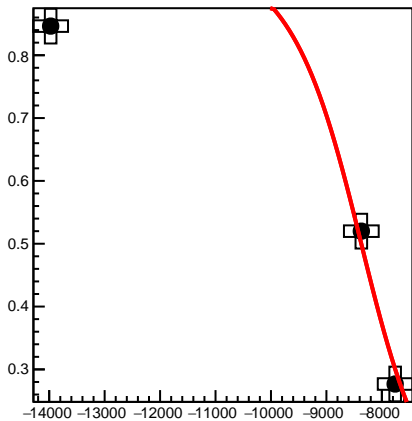
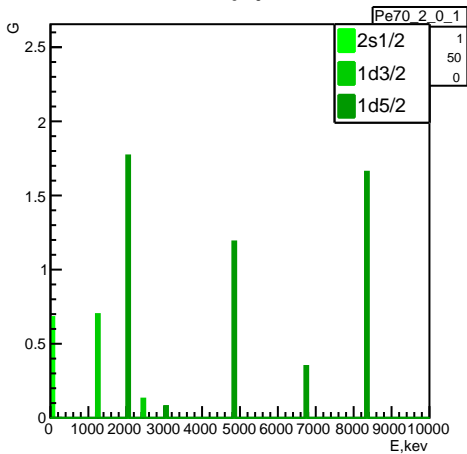
SPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-10513 2s1/2 0.6325 0.865

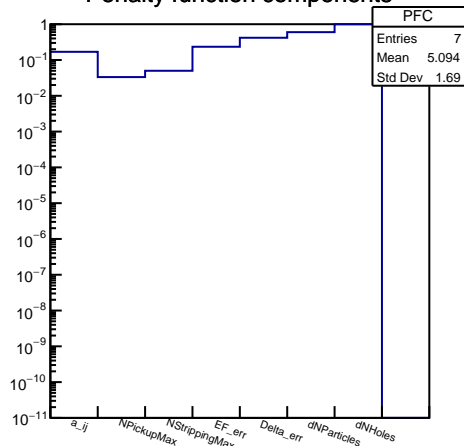
-7871.52 1d3/2 0.288 0.884

-14667.3 1d5/2 0.923833 1.14567

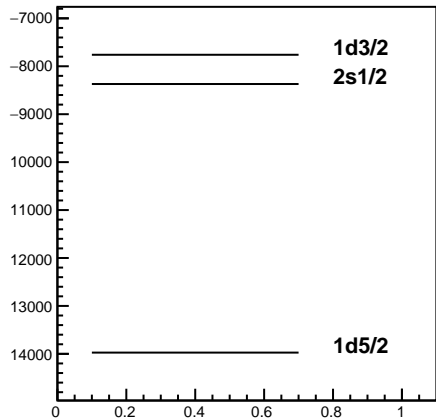
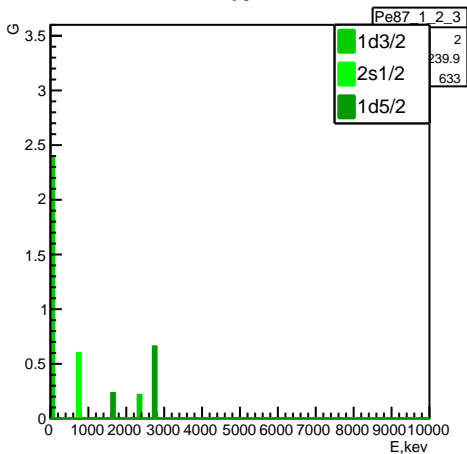
Pe70



Penalty function components



Pe87



Experiment: Pe70 (8) Pe87 (5)

neutron transfer

n separation energy A:10607.9, A+1: 6586.5

E_F: -8371.01 \pm 521.741 keV

Δ : -1403.52 \pm 2376.89 keV

penalty: 0.481755

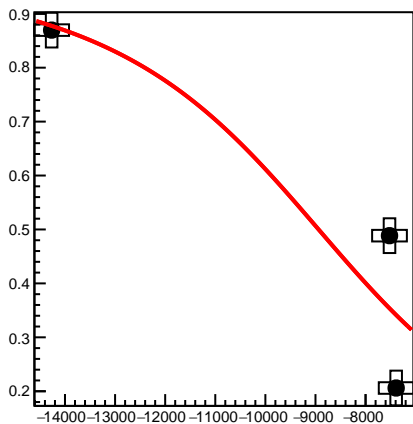
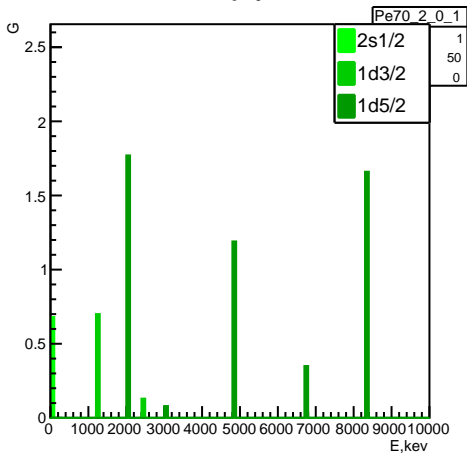
SPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-8370.28 2s1/2 0.52 0.64

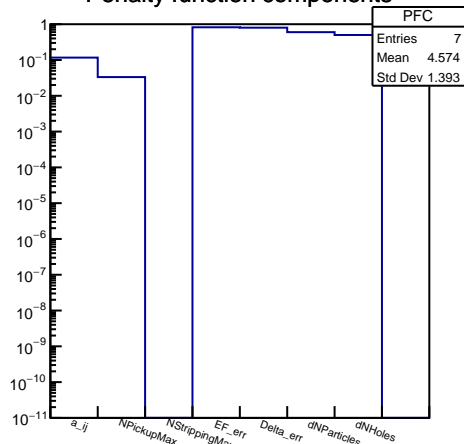
-7760.11 1d3/2 0.27675 0.8615

-13973.8 1d5/2 0.846333 0.990667

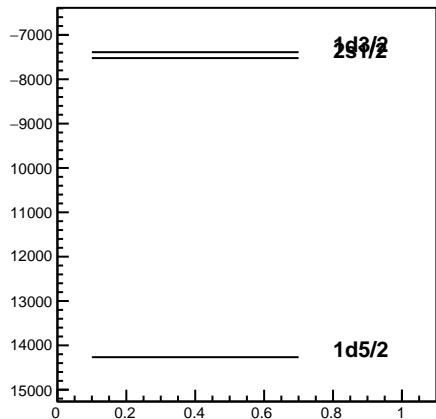
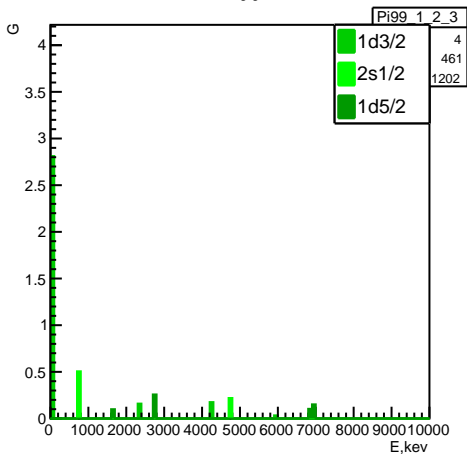
Pe70



Penalty function components



Pi99



Experiment: Pe70 (8) Pi99 (10)

neutron transfer

n separation energy A:10607.9, A+1: 6586.5f

E_F: -8937.51 \pm 1827.38 keV Δ : -4627.14 \pm 4549.03 keV

penalty: 0.55216

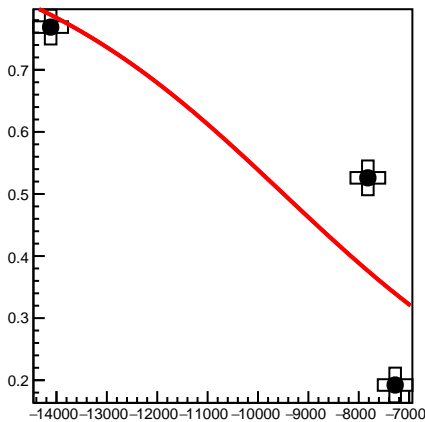
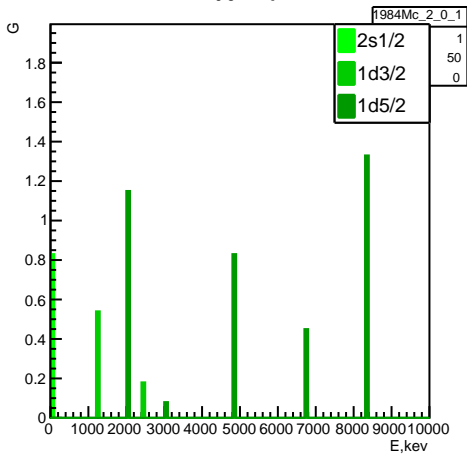
SPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-7522.32 2s1/2 0.4885 0.703

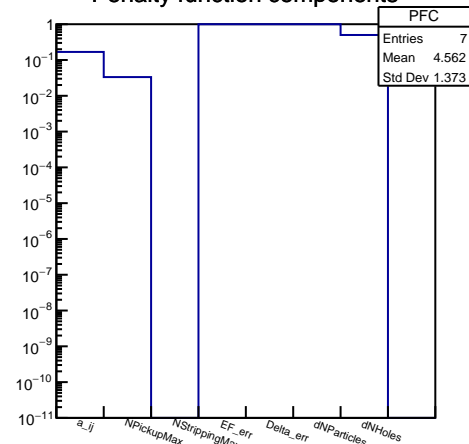
-7389.45 1d3/2 0.206 1.003

-14266.3 1d5/2 0.869667 0.944

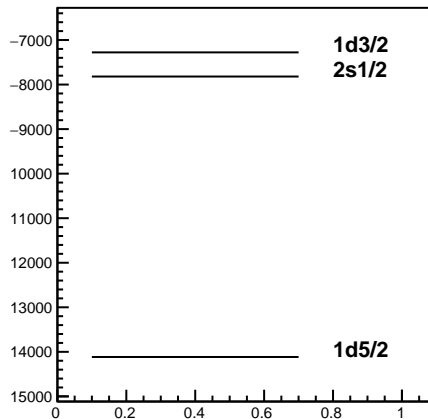
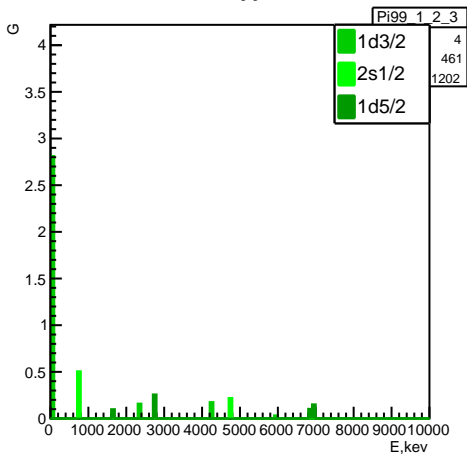
1984Mc



Penalty function components



Pi99



Experiment: 1984Mc (8) Pi99 (10)

neutron transfer

n separation energy A:10607.9, A+1: 6586.5f

 $E_F: -9491.03 \pm 2225.62 \text{ keV}$ $\Delta: 6539.95 \pm 5685.12 \text{ keV}$

penalty: 0.711806

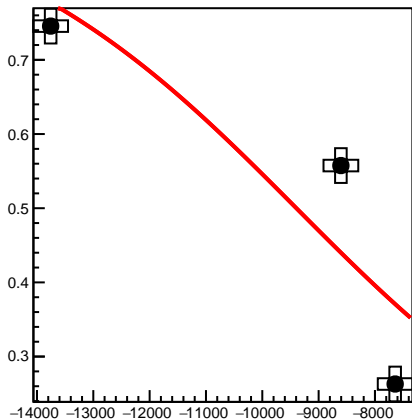
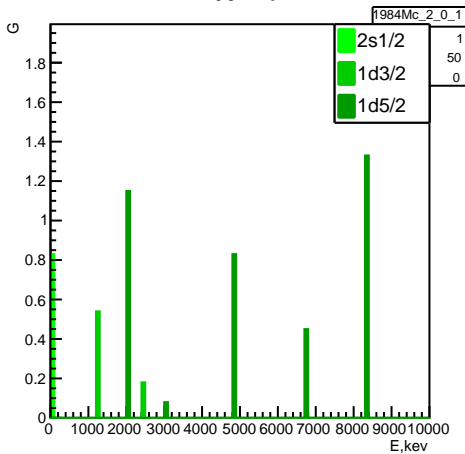
SPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-7819.77 2s1/2 0.526 0.778

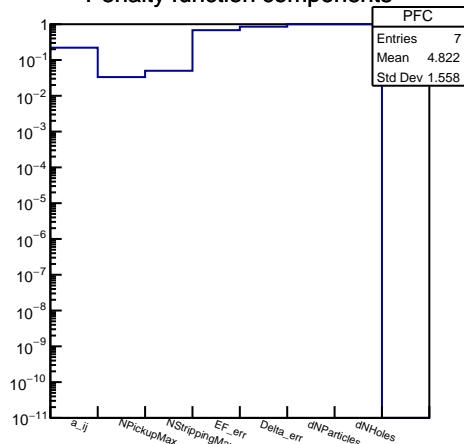
-7277.6 1d3/2 0.19225 0.9755

-14115.6 1d5/2 0.768833 0.742333

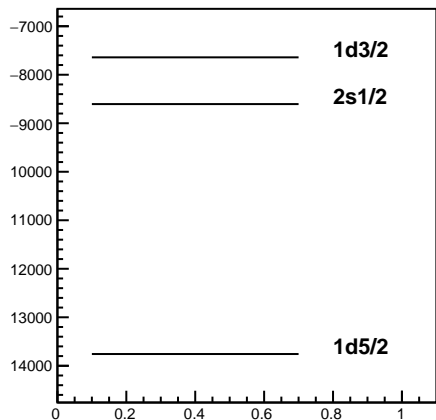
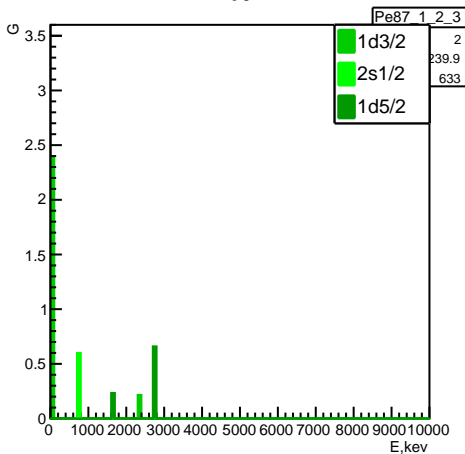
1984Mc



Penalty function components



Pe87



Experiment: 1984Mc (8) Pe87 (5)

neutron transfer

n separation energy A:10607.9, A+1: 6586.5

E_F: -9394.97 ± 1516.04 keV

Δ: -6552.91 ± 4855.12 keV

penalty: 0.738304

SPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-8604.99 2s1/2 0.5575 0.715

-7641.5 1d3/2 0.263 0.834

-13757.3 1d5/2 0.7455 0.789