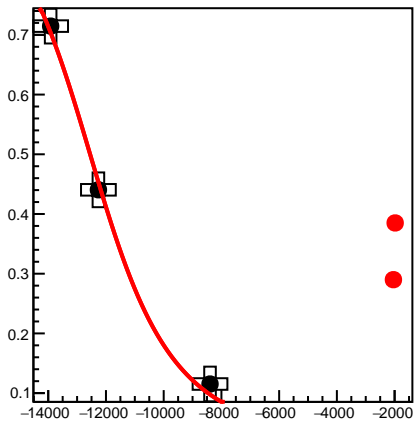
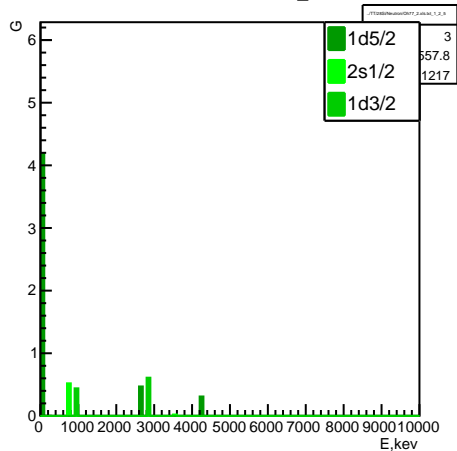
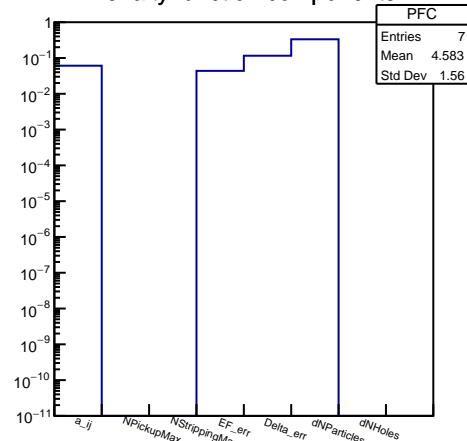


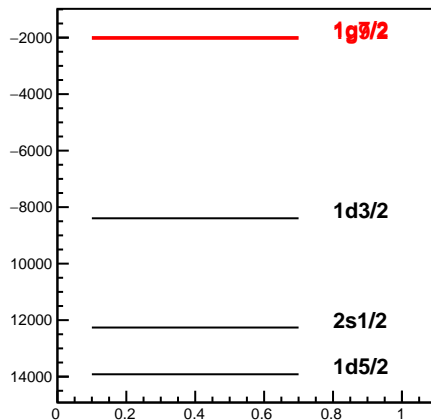
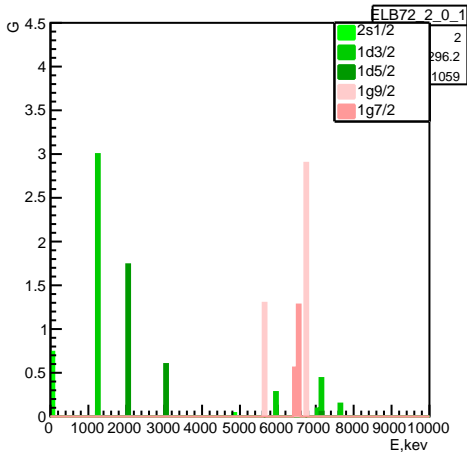
../TT/28Si/Neutron/Oh77_2.xls.txt



Penalty function components



ELB72



Experiment: ../TT/28Si/Neutron/Oh77_2.xls.t

neutron transfer

n separation energy A:17178.6, A+1: 8472.87

E_F: -12549.2 \pm 121.114 keV

Δ : 3065.13 \pm 353.715 keV

penalty: 0.106492

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

-13916.4 1d5/2 0.714667 1.22733

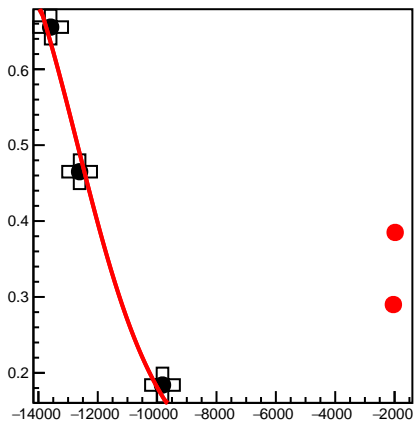
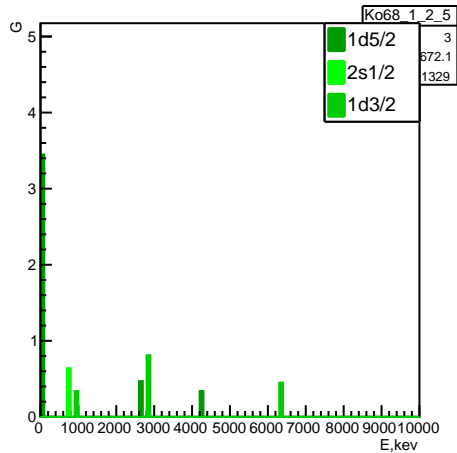
-12261.7 2s1/2 0.4405 0.661

-8395.01 1d3/2 0.11525 1.2945

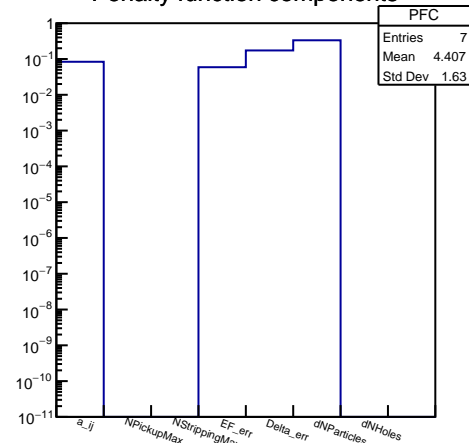
-2041.25 1g9/2 0.29 6.91372e-310

-1981 1g7/2 0.385 2.37152e-322

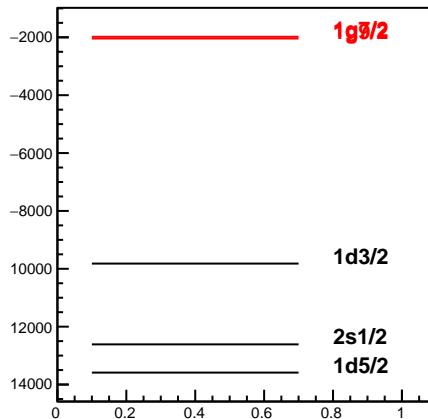
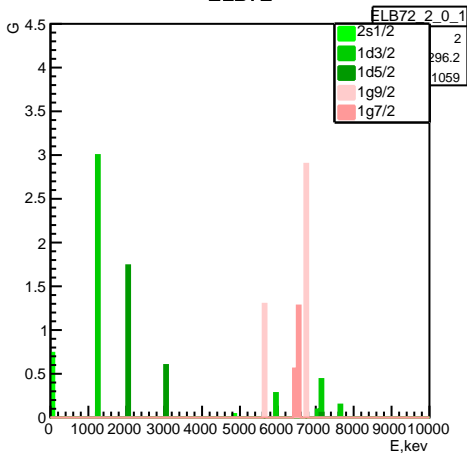
Ko68



Penalty function components



ELB72



Experiment: Ko68 (7) ELB72 (15)

neutron transfer

n separation energy A:17178.6, A+1: 8472.87

 E_F : -12679.6 ± 163.464 keV Δ : -3235.33 ± 529.888 keV

penalty: 0.12489

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

-13587.6 1d5/2 0.6555 1.109

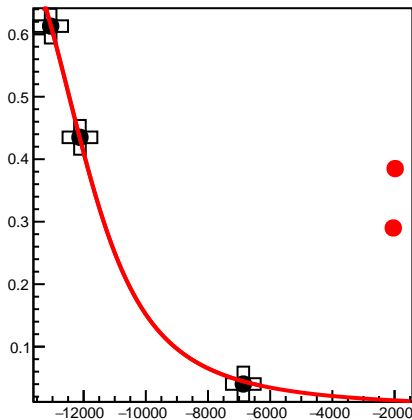
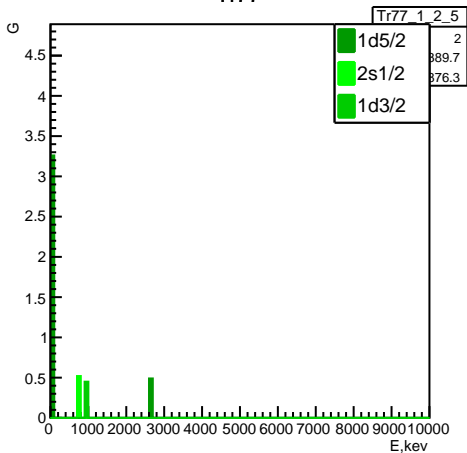
-12612.2 2s1/2 0.465 0.71

-9819.85 1d3/2 0.184 1.432

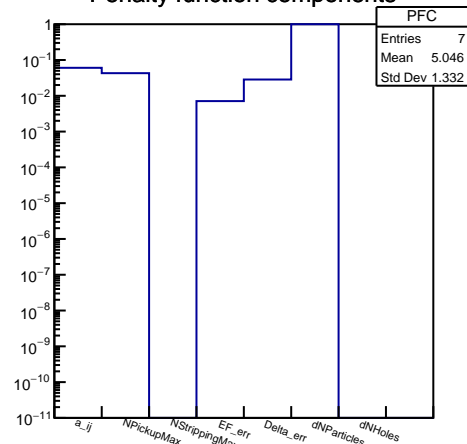
-2041.25 1g9/2 0.29 0.29

-1981 1g7/2 0.385 2.37152e-322

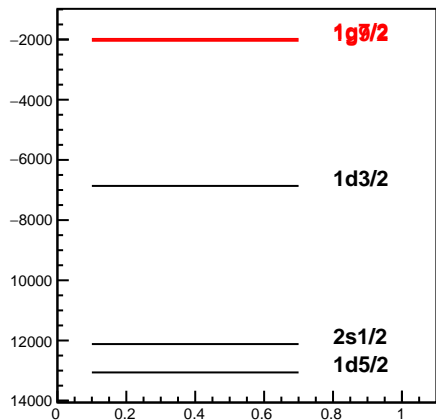
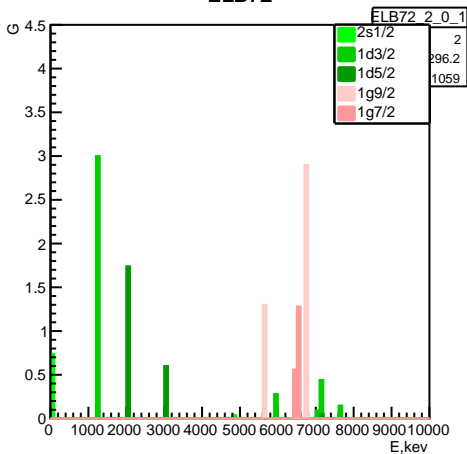
Tr77



Penalty function components



ELB72



Experiment: Tr77 (4) ELB72 (15)

neutron transfer

n separation energy A:17178.6, A+1: 8472.87

E_F: -12462 \pm 19.6935 keV

Δ : 2536.03 \pm 87.0493 keV

penalty: 0.21903

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

-13060.8 1d5/2 0.613 1.024

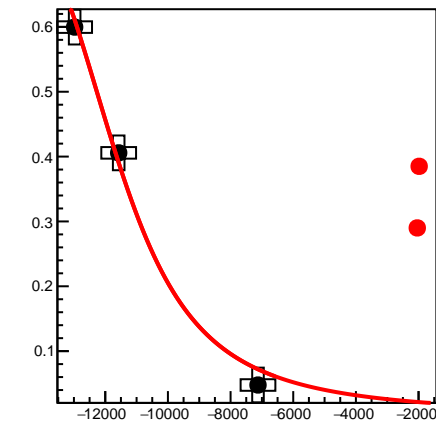
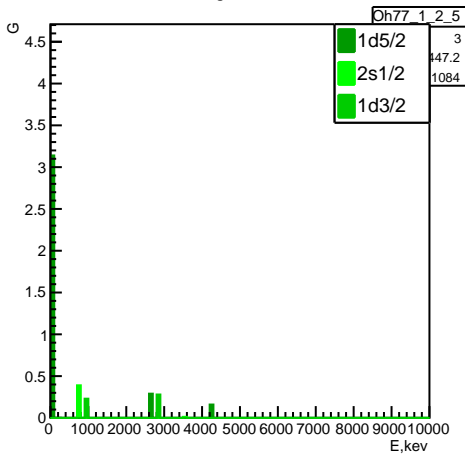
-12118.6 2s1/2 0.435 0.65

-6863.99 1d3/2 0.04025 1.1445

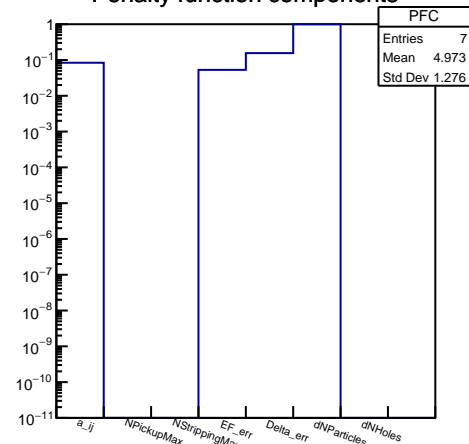
-2041.25 1g9/2 0.29 5.58294e-322

-1981 1g7/2 0.385 6.91372e-310

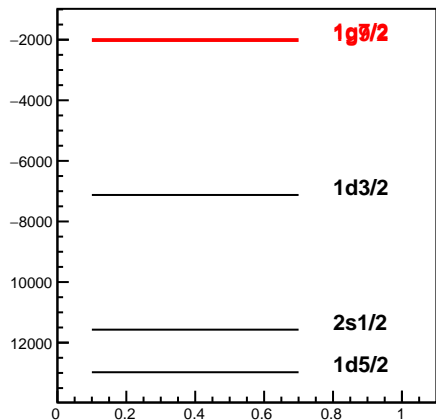
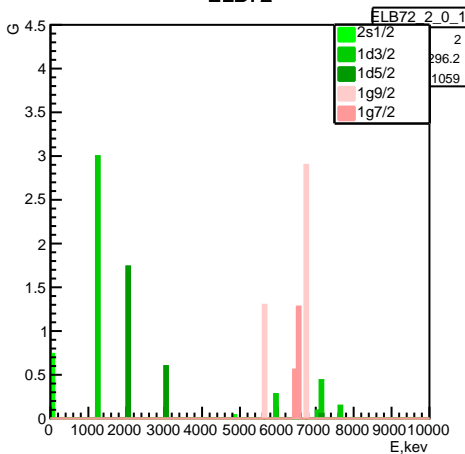
Oh77



Penalty function components



ELB72



Experiment: Oh77 (7) ELB72 (15)

neutron transfer

n separation energy A:17178.6, A+1: 8472.87

 $E_F: -12268.4 \pm 146.835 \text{ keV}$ $\Delta: -3106.8 \pm 476.008 \text{ keV}$

penalty: 0.248592

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

-12976.9 1d5/2 0.599667 0.997333

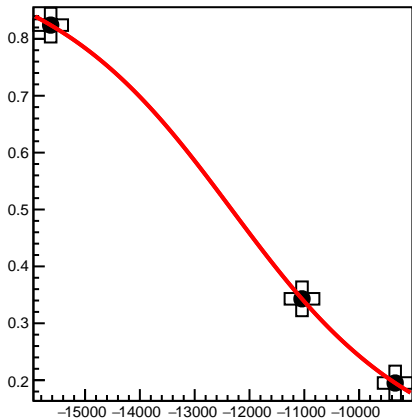
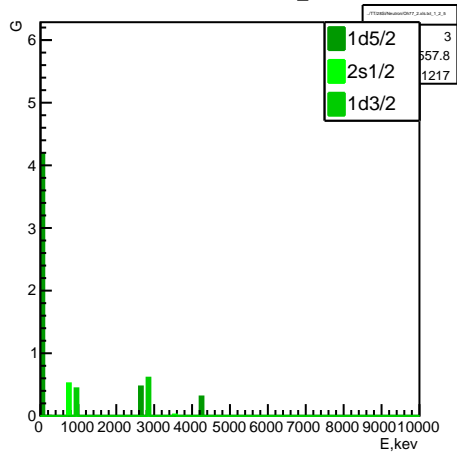
-11571.2 2s1/2 0.40575 0.5915

-7125.05 1d3/2 0.04775 1.1595

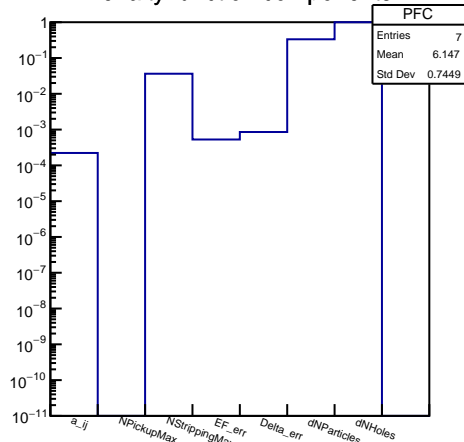
-2041.25 1g9/2 0.29 3.21143e-322

-1981 1g7/2 0.385 0.0838889

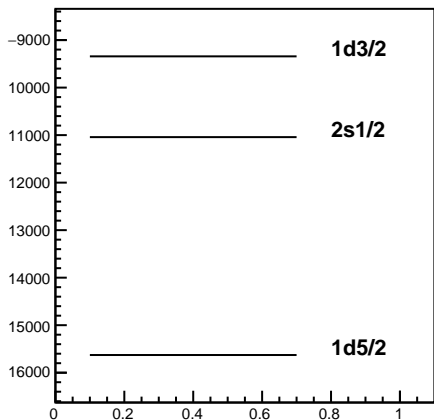
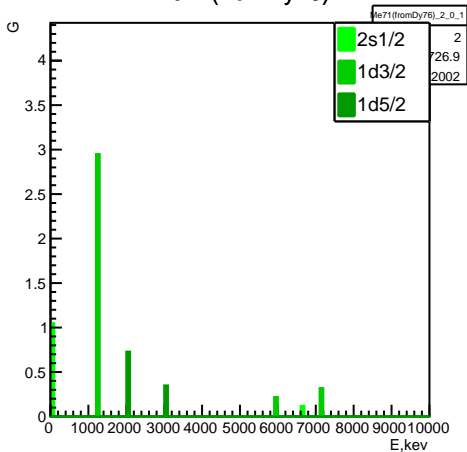
../TT/28Si/Neutron/Oh77_2.xls.txt



Penalty function components



Me71(fromDy76)



Experiment: ../TT/28Si/Neutron/Oh77_2.xls.t

neutron transfer

n separation energy A:17178.6, A+1: 8472.87

E_F : -12326.1 ± 1.46412 keV

Δ : 3876.67 ± 2.61392 keV

penalty: 0.263712

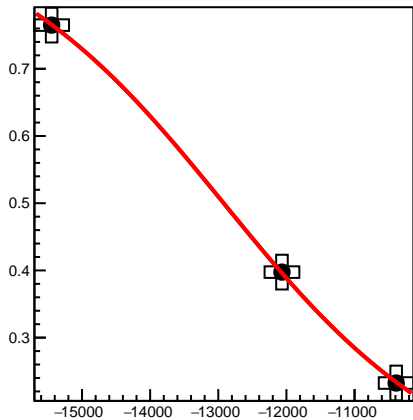
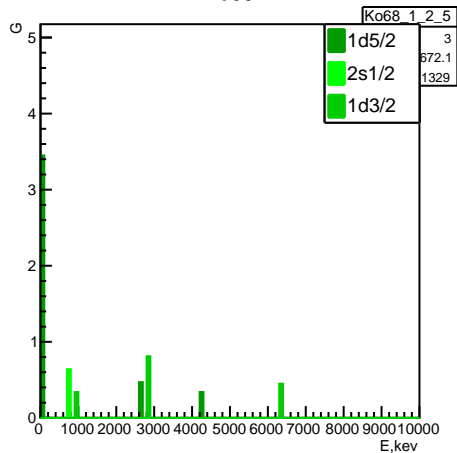
SPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-15627.8 1d5/2 0.824167 1.00833

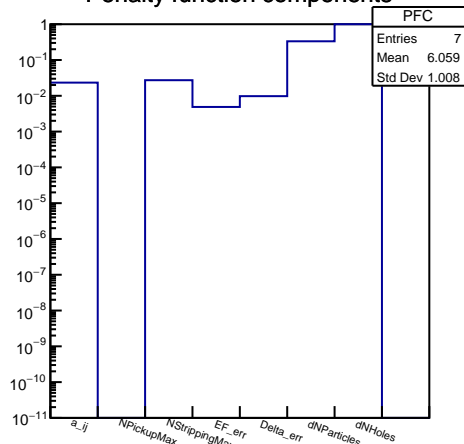
-11042.4 2s1/2 0.343 0.856

-9342.58 1d3/2 0.195 1.135

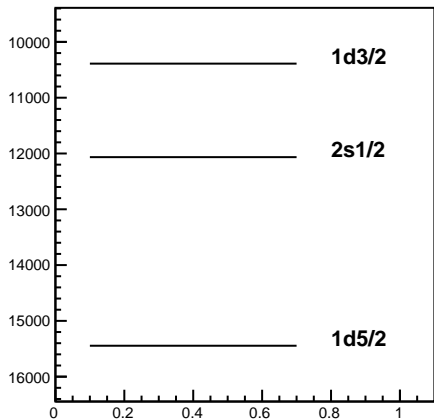
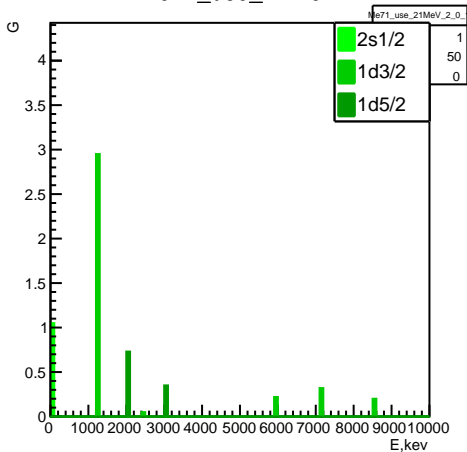
Ko68



Penalty function components

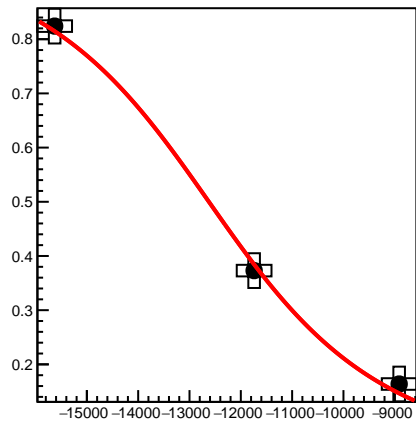
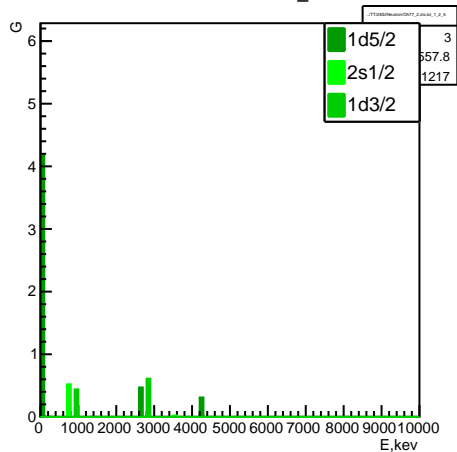


Me71_use_21MeV

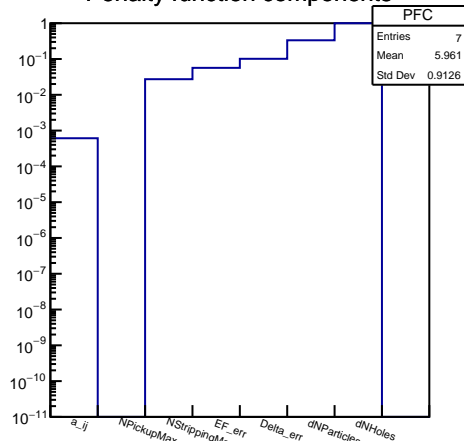


Experiment: Ko68 (7) Me71_use_21MeV (8)
neutron transfer
n separation energy A:17178.6, A+1: 8472.8
 E_F : -12920.5 \pm 13.5182 keV
 Δ : -4025.94 \pm 29.8511 keV
penalty: 0.268959
SPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$
-15445.7 1d5/2 0.765 0.89
-12065.4 2s1/2 0.3975 0.845
-10389.4 1d3/2 0.2325 1.335

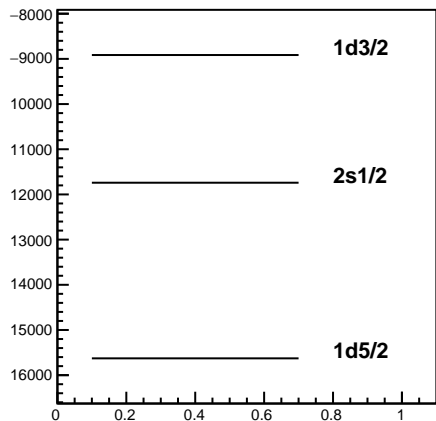
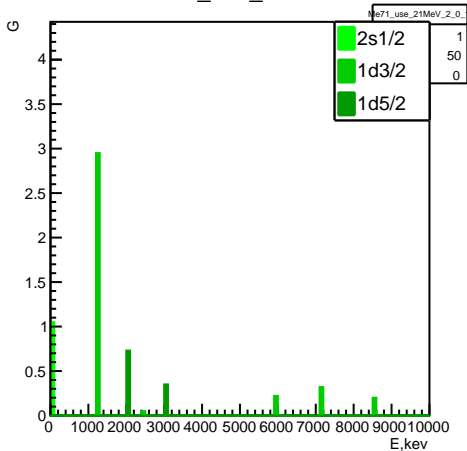
../TT/28Si/Neutron/Oh77_2.xls.txt



Penalty function components



Me71_use_21MeV



Experiment: ../TT/28Si/Neutron/Oh77_2.xls.t

neutron transfer

n separation energy A:17178.6, A+1: 8472.87

E_F: -12622.3 ± 156.774 keV

Δ: 3709.93 ± 309.5 keV

penalty: 0.292134

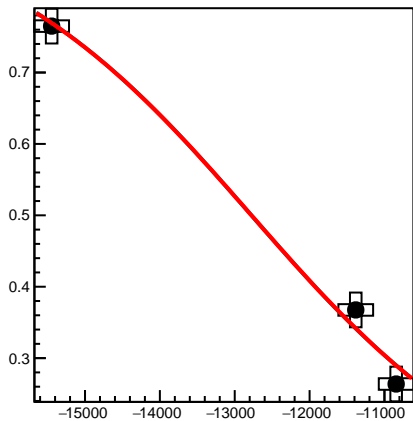
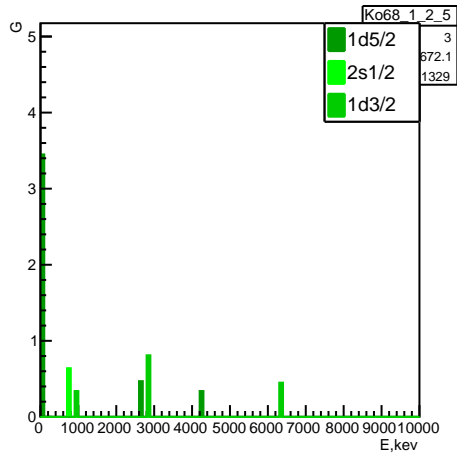
SPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-15627.8 1d5/2 0.824167 1.00833

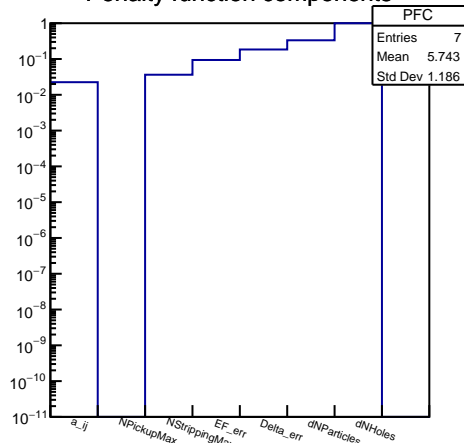
-11740.8 2s1/2 0.373 0.796

-8914.55 1d3/2 0.16375 1.1975

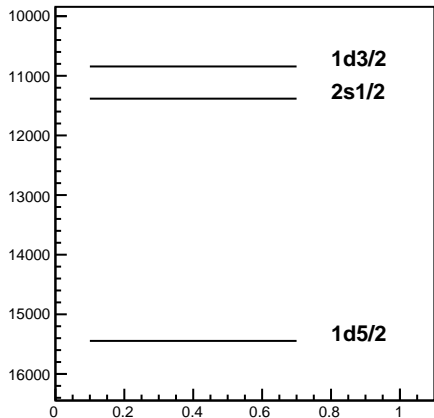
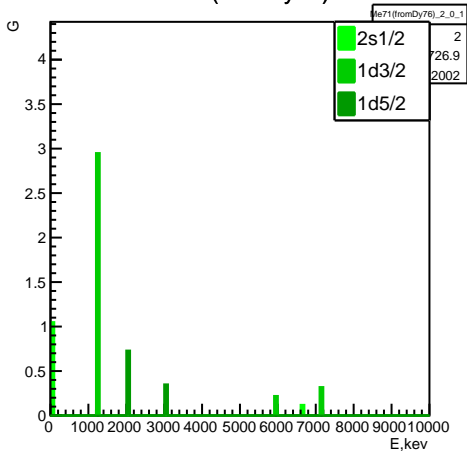
Ko68



Penalty function components



Me71(fromDy76)



Experiment: Ko68 (7) Me71(fromDy76) (7)

neutron transfer

n separation energy A:17178.6, A+1: 8472.87

E_F: -12776.7 \pm 260.068 keV

Δ : 4172.4 \pm 563.501 keV

penalty: 0.321248

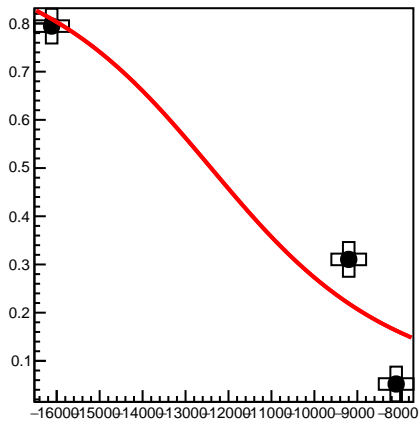
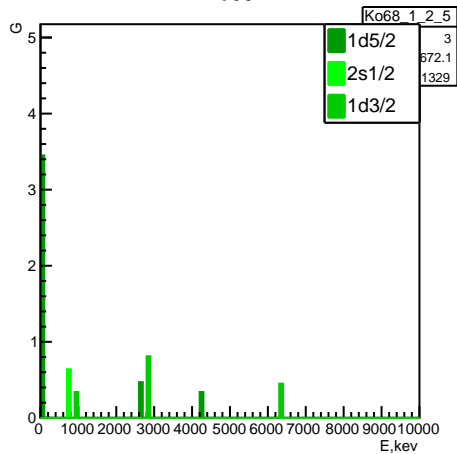
SPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-15445.7 1d5/2 0.765 0.89

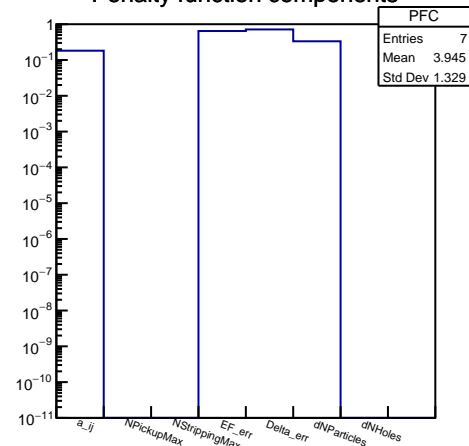
-11383.3 2s1/2 0.3675 0.905

-10843.6 1d3/2 0.26375 1.2725

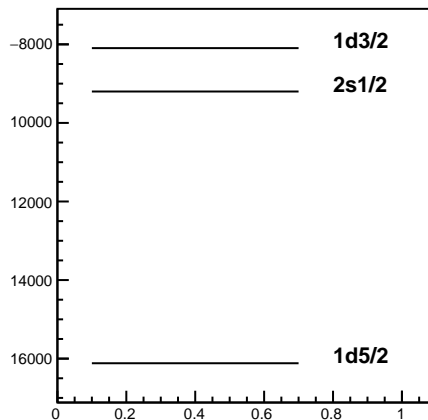
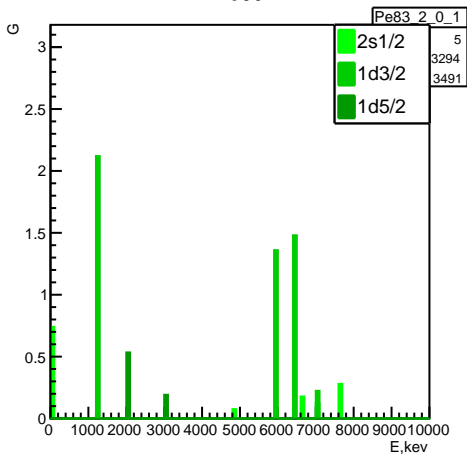
Ko68



Penalty function components



Pe83



Experiment: Ko68 (7) Pe83 (11)

neutron transfer

n separation energy A:17178.6, A+1: 8472.87

E_F: -12405.4 ± 1788.09 keV

Δ: 4718.5 ± 2182.59 keV

penalty: 0.36058

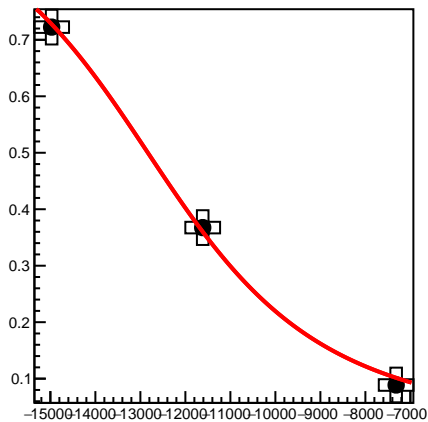
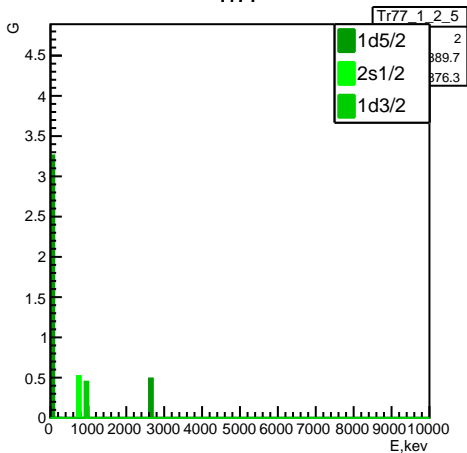
SPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-16117.7 1d5/2 0.7945 0.831

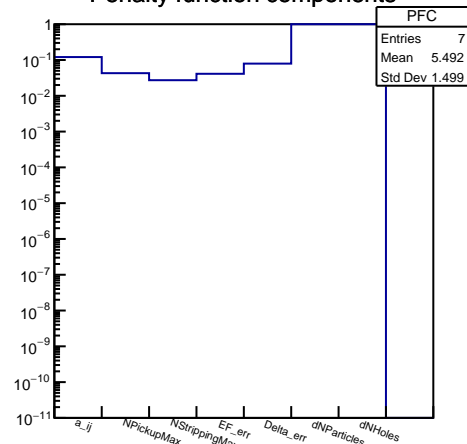
-9200.44 2s1/2 0.3105 1.019

-8096.03 1d3/2 0.052 1.696

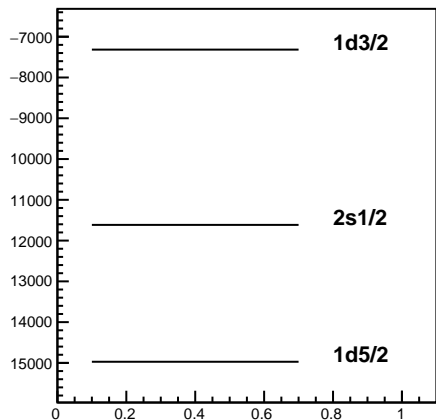
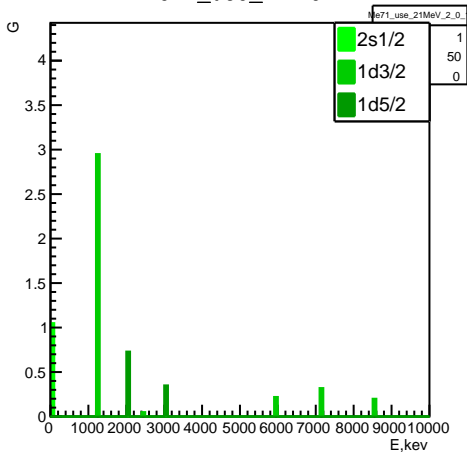
Tr77



Penalty function components



Me71_use_21MeV



Experiment: Tr77 (4) Me71_use_21MeV (8)

neutron transfer

n separation energy A:17178.6, A+1: 8472.87

 $E_F: -12833.3 \pm 114.106 \text{ keV}$ $\Delta: 4180.34 \pm 242.208 \text{ keV}$

penalty: 0.444504

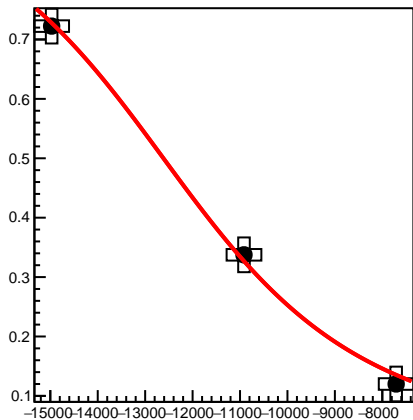
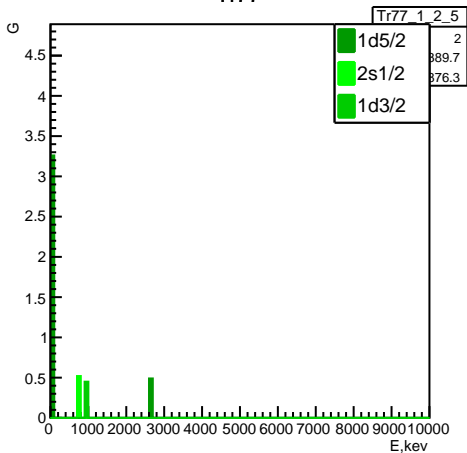
SPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-14971.7 1d5/2 0.7225 0.805

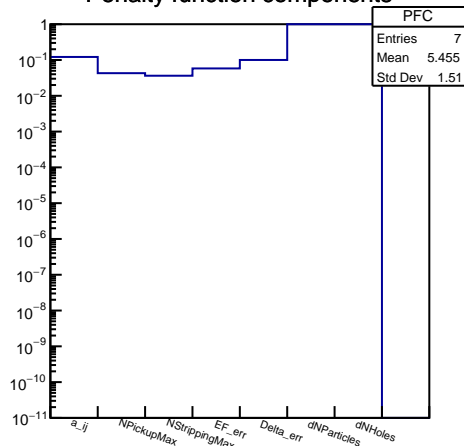
-11614.9 2s1/2 0.3675 0.785

-7316.14 1d3/2 0.08875 1.0475

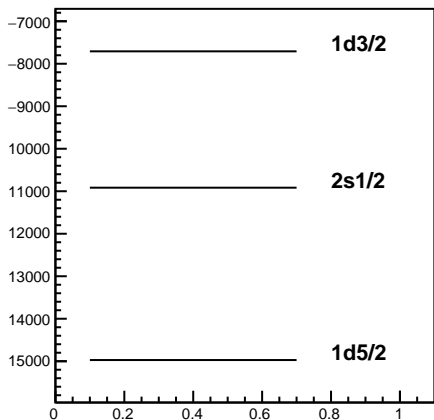
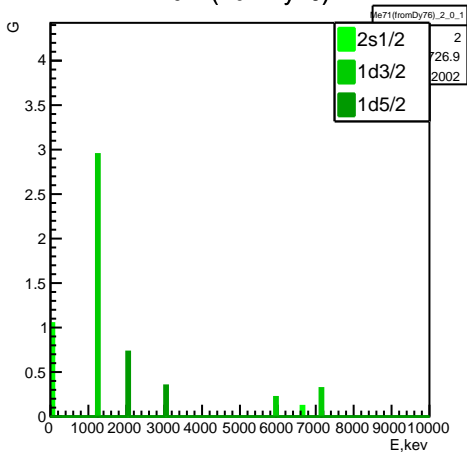
Tr77



Penalty function components



Me71(fromDy76)



Experiment: Tr77 (4) Me71(fromDy76) (7)

neutron transfer

n separation energy A:17178.6, A+1: 8472.87

E_F: -12615 \pm 161.076 keV Δ : -4603.25 \pm 306.229 keV

penalty: 0.453702

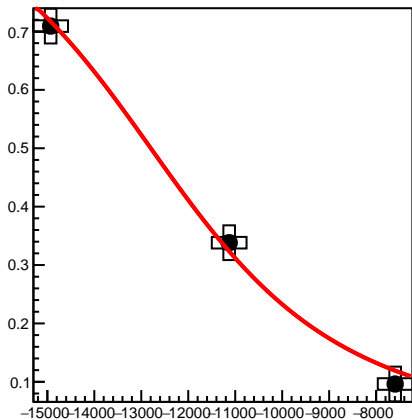
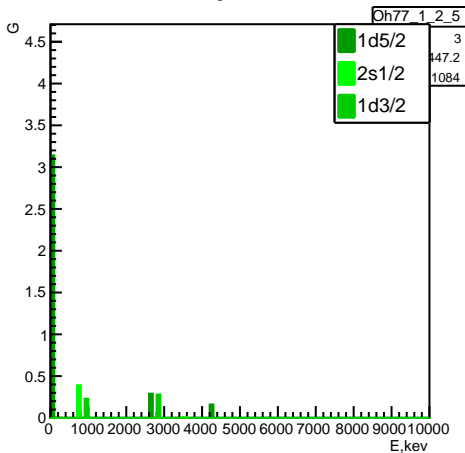
SPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-14971.7 1d5/2 0.7225 0.805

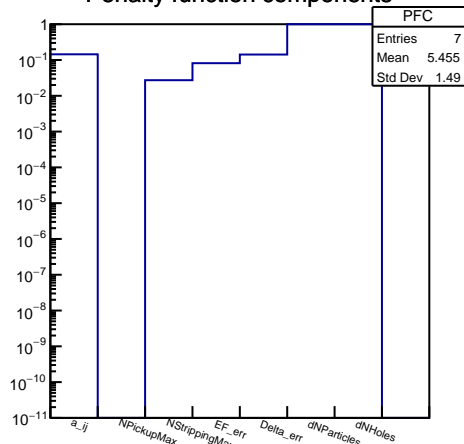
-10916.4 2s1/2 0.3375 0.845

-7707.94 1d3/2 0.12 0.985

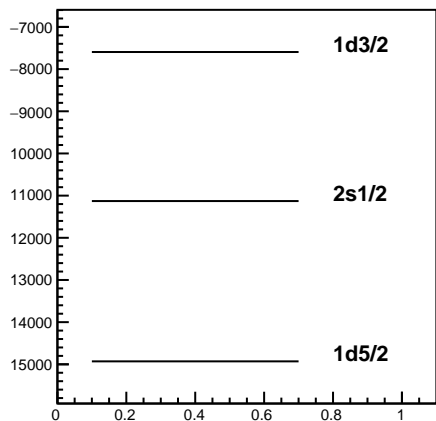
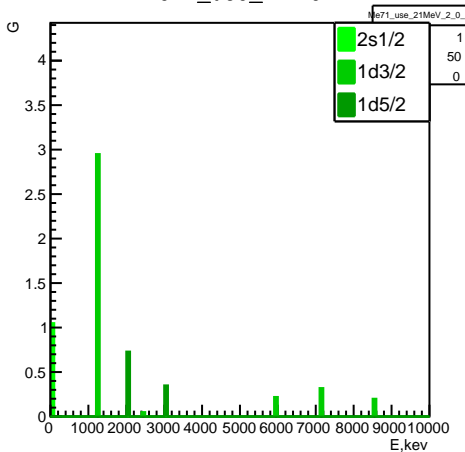
Oh77



Penalty function components

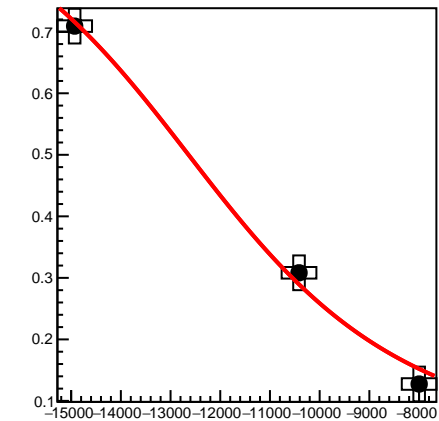
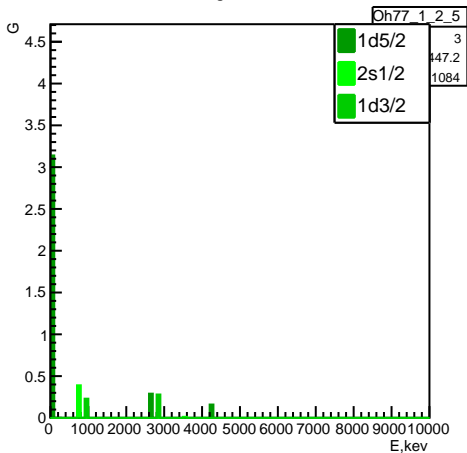


Me71_use_21MeV

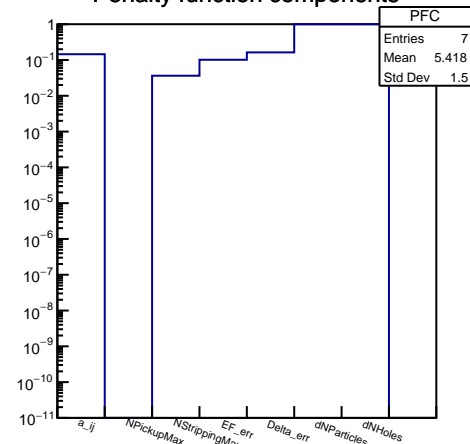


Experiment: Oh77 (7) Me71_use_21MeV (8)
 neutron transfer
 n separation energy A:17178.6, A+1: 8472.8
 E_F : -12797.4 ± 225.786 keV
 Δ : -4425.21 ± 434.349 keV
 penalty: 0.460605
 SPE, keV nlj OCC $\frac{G^+ + G^-}{2J+1}$
 -14929.7 1d5/2 0.709167 0.778333
 -11128.7 2s1/2 0.33825 0.7265
 -7594.66 1d3/2 0.09625 1.0625

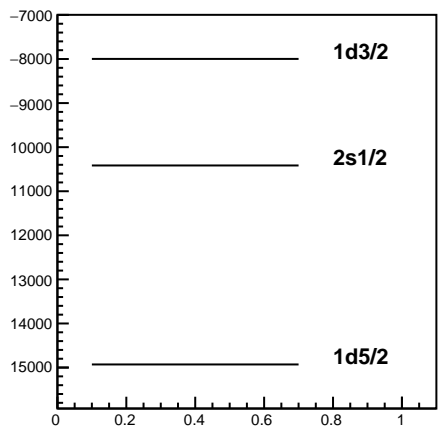
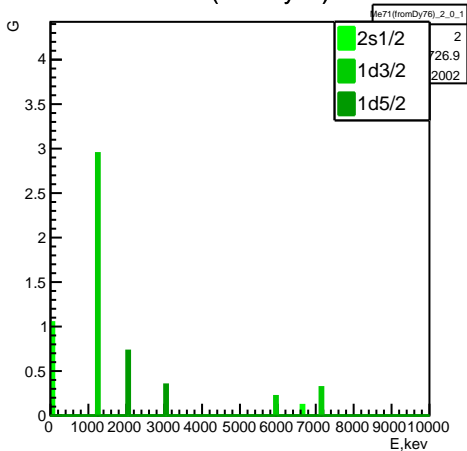
Oh77



Penalty function components

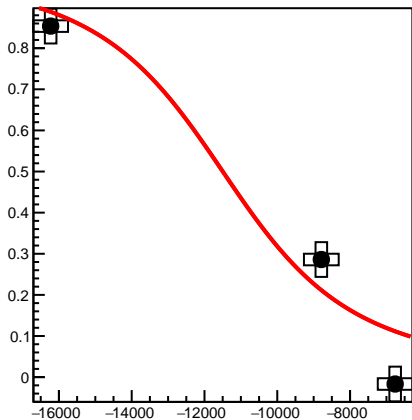
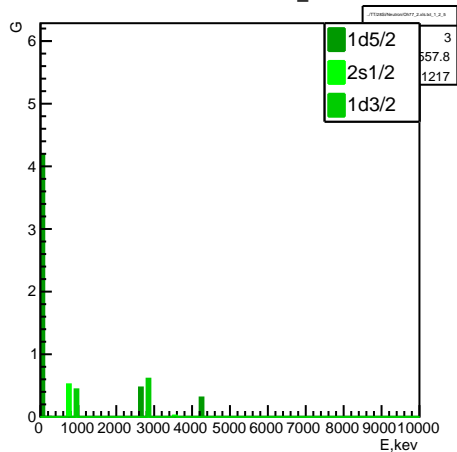


Me71(fromDy76)

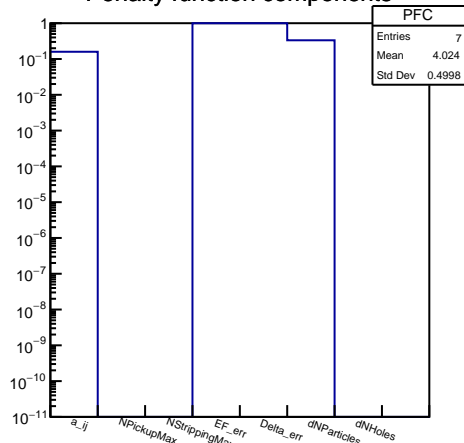


Experiment: Oh77 (7) Me71(fromDy76) (7)
 neutron transfer
 n separation energy A:17178.6, A+1: 8472.87
 E_F : -12638 ± 281.394 keV
 Δ : -4789.3 ± 498.161 keV
 penalty: 0.470389
 SPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$
 -14929.7 1d5/2 0.709167 0.778333
 -10415.3 2s1/2 0.30825 0.7865
 -7997.98 1d3/2 0.1275 1

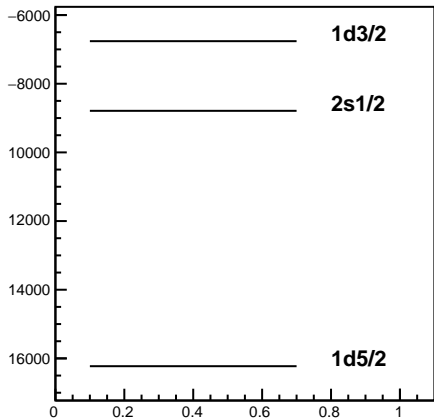
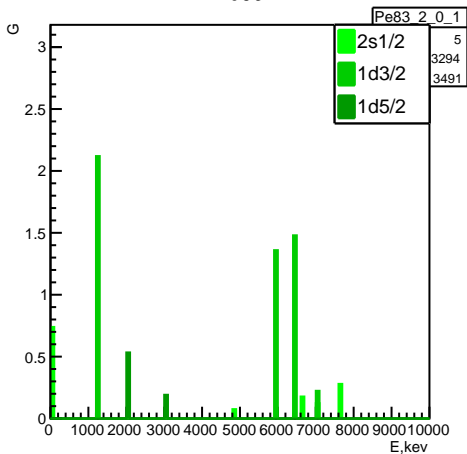
../TT/28Si/Neutron/Oh77_2.xls.txt



Penalty function components



Pe83



Experiment: ../TT/28Si/Neutron/Oh77_2.xls.t

neutron transfer

n separation energy A:17178.6, A+1: 8472.87

E_F: -11497.3 ± 2770.87 keV

Δ: 3834.82 ± 2737.03 keV

penalty: 1120.51

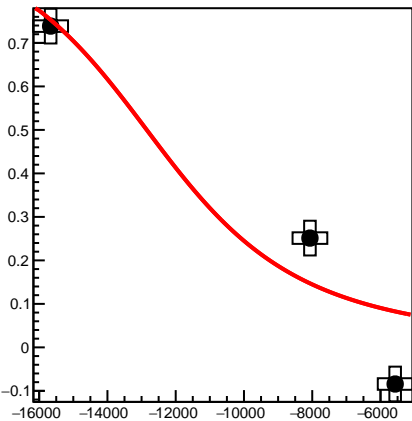
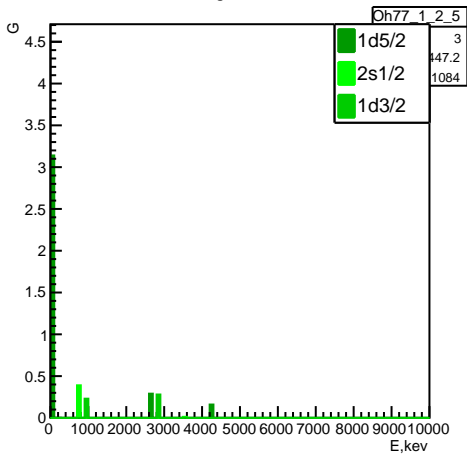
SPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-16227.3 1d5/2 0.853667 0.949333

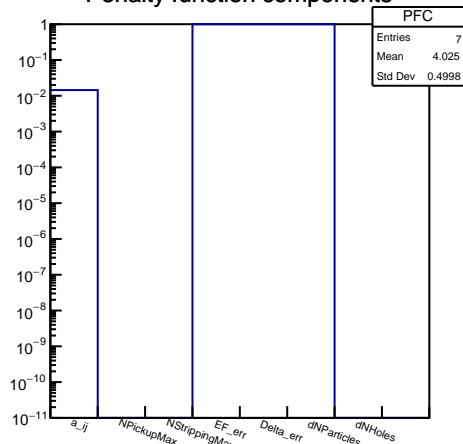
-8789.27 2s1/2 0.286 0.97

-6760.46 1d3/2 -0.01675 1.5585

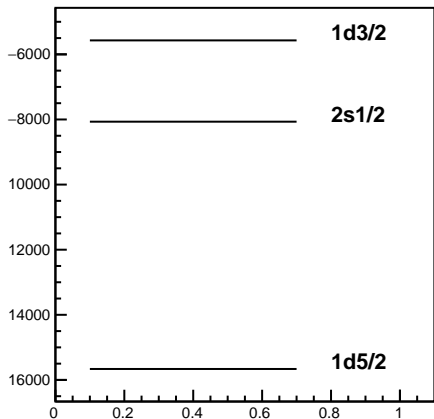
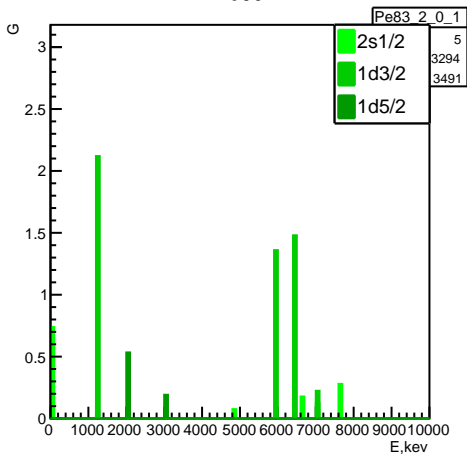
Oh77



Penalty function components



Pe83



Experiment: Oh77 (7) Pe83 (11)

neutron transfer

n separation energy A:17178.6, A+1: 8472.87

 $E_F: -12848.2 \pm 2674.81 \text{ keV}$ $\Delta: 4800.63 \pm 3055.29 \text{ keV}$

penalty: 1120.61

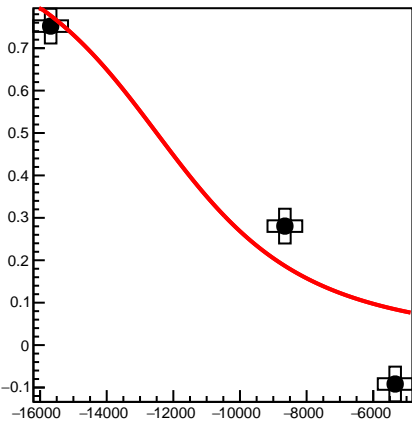
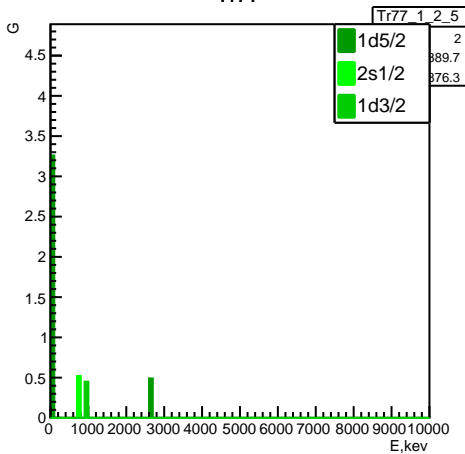
SPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-15663.7 1d5/2 0.738667 0.719333

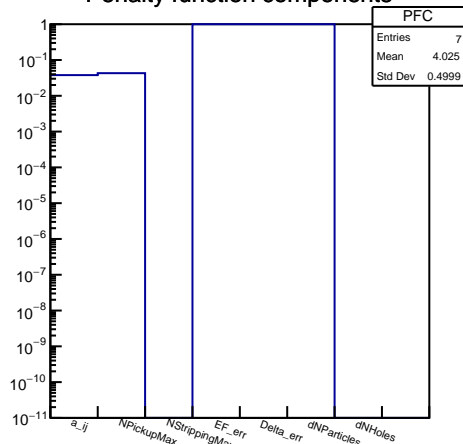
-8067.72 2s1/2 0.25125 0.9005

-5571.01 1d3/2 -0.08425 1.4235

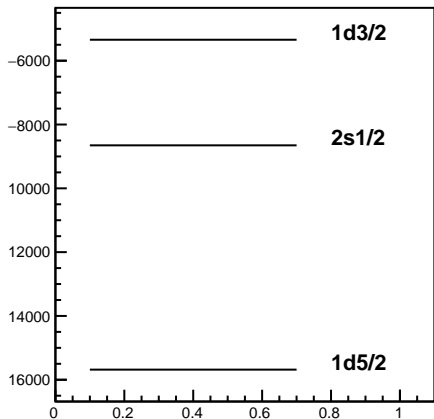
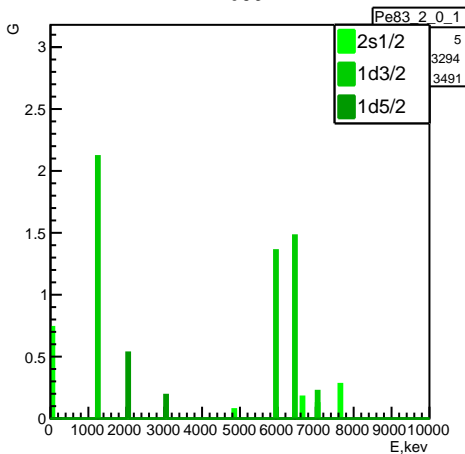
Tr77



Penalty function components



Pe83



Experiment: Tr77 (4) Pe83 (11)

neutron transfer

n separation energy A:17178.6, A+1: 8472.87

 $E_F: -12501.2 \pm 2733.54 \text{ keV}$ $\Delta: 4786.75 \pm 2904.44 \text{ keV}$

penalty: 1120.62

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

-15682.8 1d5/2 0.752 0.746

-8652.43 2s1/2 0.2805 0.959

-5342.33 1d3/2 -0.09175 1.4085