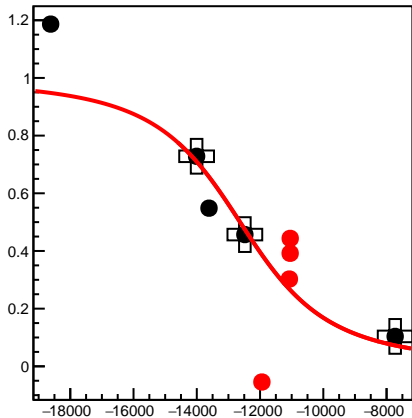
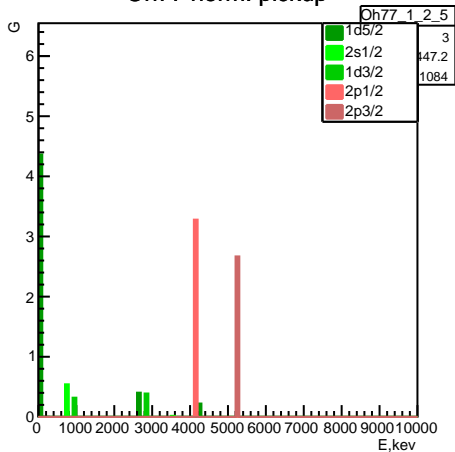
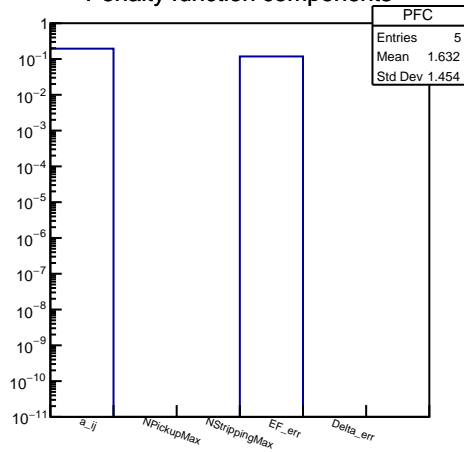


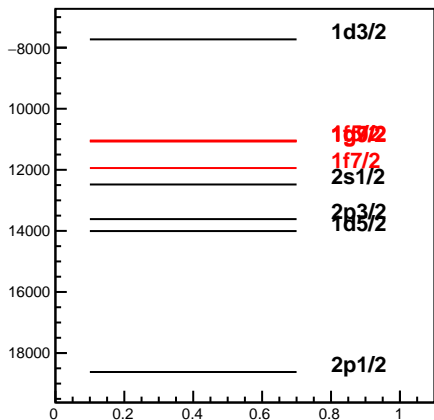
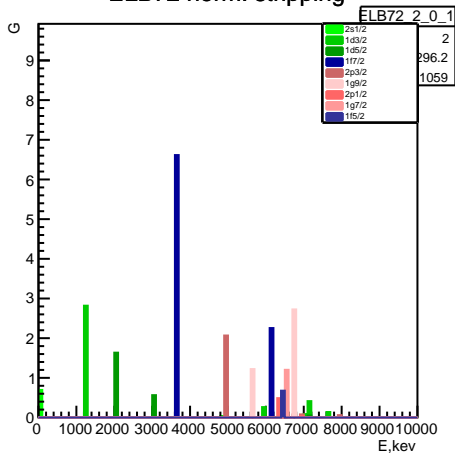
Oh77 norm. pickup



Penalty function components



ELB72 norm. stripping



Experiment: Oh77 (9) ELB72 (24)

neutron transfer_norm

 $n^+ = 0.939636 \pm 0$ $n^- = 1.38992 \pm 0$

penalty: 0.0723667

 $E_F: -12631.7 \pm 210.66$ keV $\Delta: 2970.3 \pm 687.753$ keVSPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-14005.6 1d5/2 0.728362 1.20655

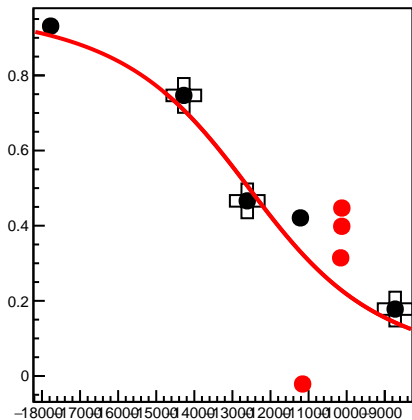
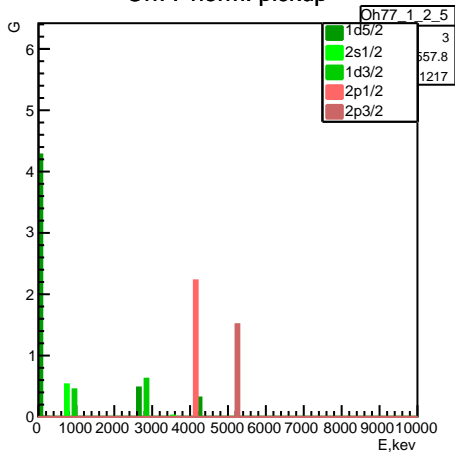
-12480.3 2s1/2 0.456806 0.646528

-7728.69 1d3/2 0.103756 1.14692

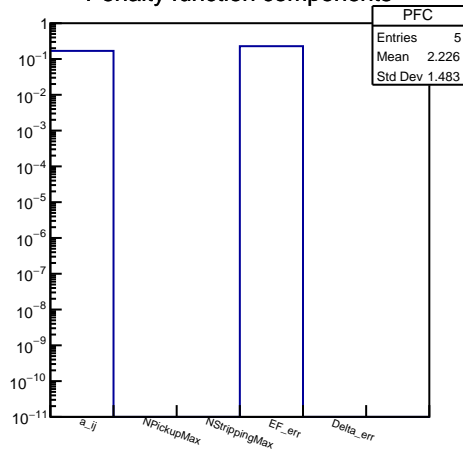
-18620.3 2p1/2 1.18663 1.90697

-13614.1 2p3/2 0.548402 1.23752

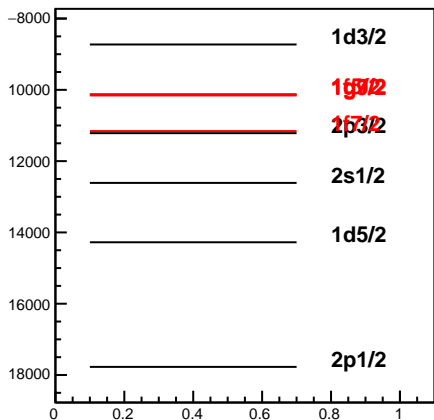
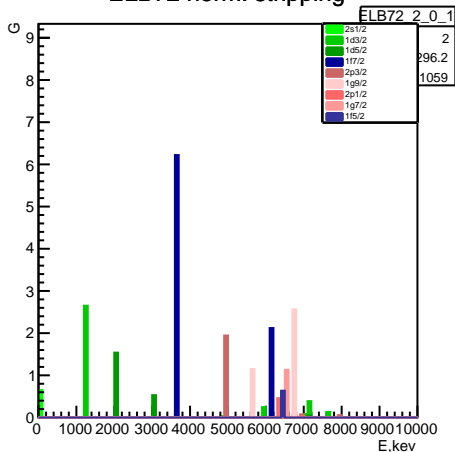
Oh77 norm. pickup



Penalty function components



ELB72 norm. stripping



Experiment: Oh77 (9) ELB72 (24)

neutron transfer_norm

 $n^+ = 0.883621 \pm 0$ $n^- = 1.02136 \pm 0$

penalty: 0.087796

 $E_F: -12564.3 \pm 407.832$ keV $\Delta: -3747.98 \pm 1152.11$ keVSPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-14276.2 1d5/2 0.746732 1.19859

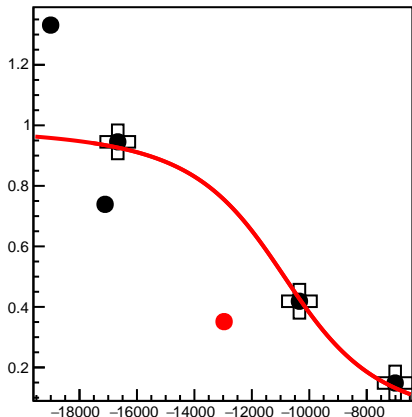
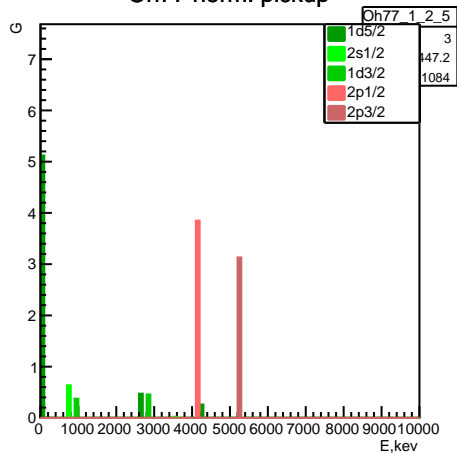
-12610.7 2s1/2 0.466089 0.621402

-8727.47 1d3/2 0.178106 1.18

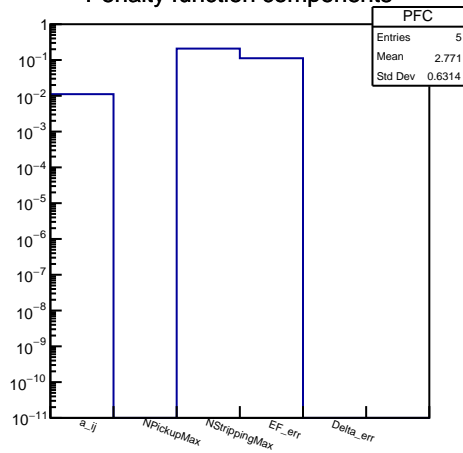
-17772.2 2p1/2 0.931169 1.36423

-11215 2p3/2 0.420773 0.914262

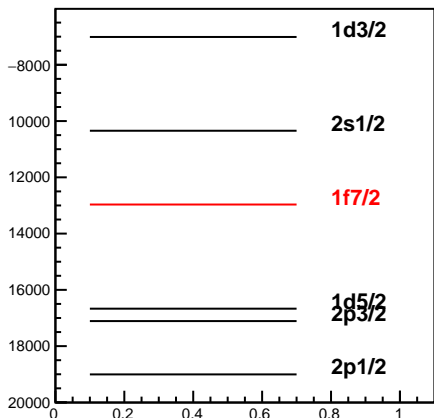
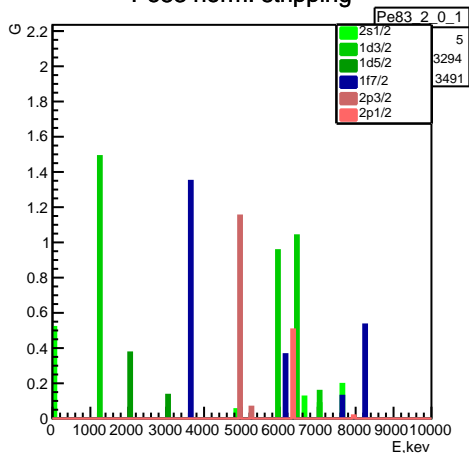
Oh77 norm. pickup



Penalty function components



Pe83 norm. stripping



Experiment: Oh77 (9) Pe83 (19)

neutron transfer_norm

 $n^+ = 0.702938 \pm 0$ $n^- = 1.63111 \pm 0$

penalty: 0.113691

 $E_F: -10869.8 \pm 200.365$ keV $\Delta: 3548.88 \pm 471.956$ keVSPE, keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-16668.6 1d5/2 0.945446 1.061

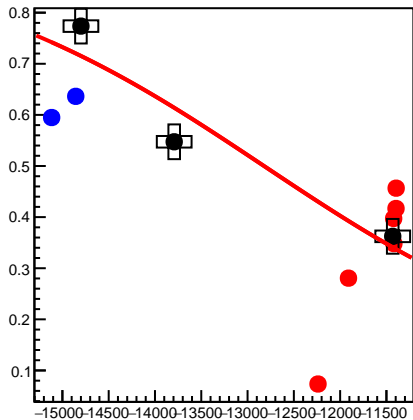
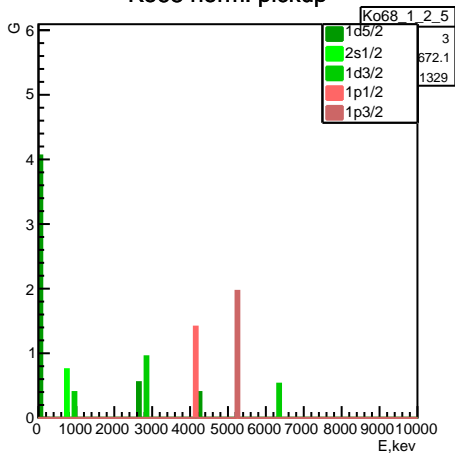
-10344.1 2s1/2 0.418658 0.820022

-7010.72 1d3/2 0.148479 1.11897

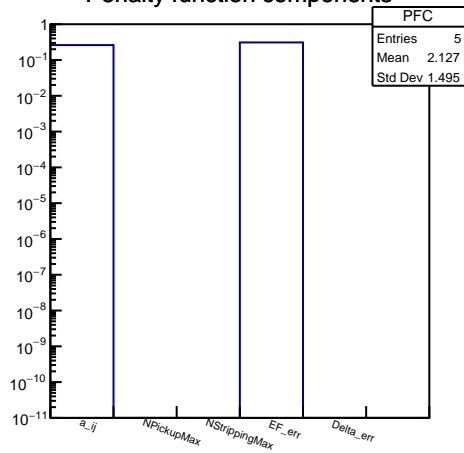
-19005.1 2p1/2 1.33126 2.18691

-17109.8 2p3/2 0.738929 1.08801

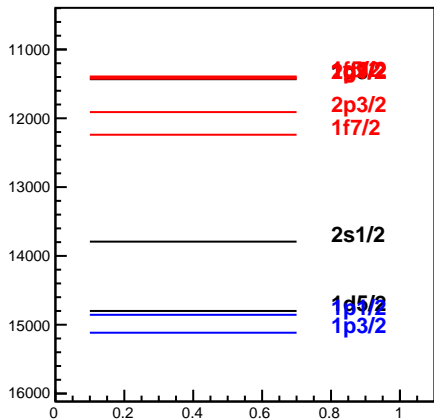
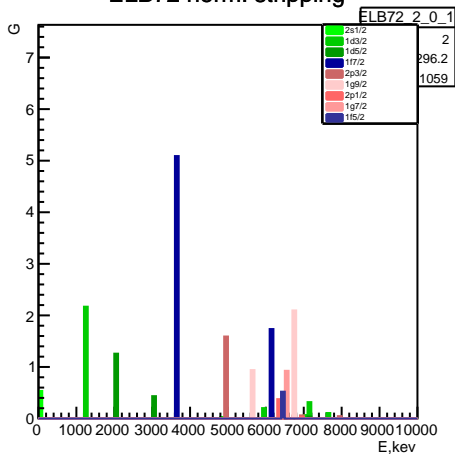
Ko68 norm. pickup



Penalty function components



ELB72 norm. stripping



Experiment: Ko68 (9) ELB72 (24)

neutron transfer_norm

 $n^+ = 0.722953 \pm 0$ $n^- = 1.17727 \pm 0$

penalty: 0.12694

 $E_F: -12822.4 \pm 553.383$ keV $\Delta: 4143.74 \pm 1555.34$ keVSPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-14799.9 1d5/2 0.773703 1.12432

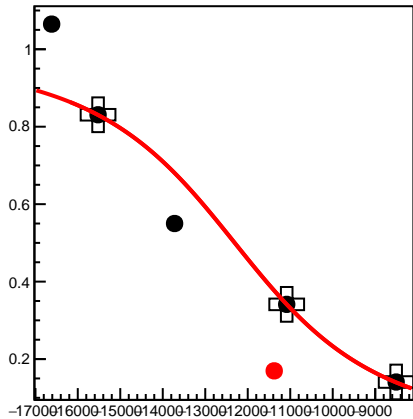
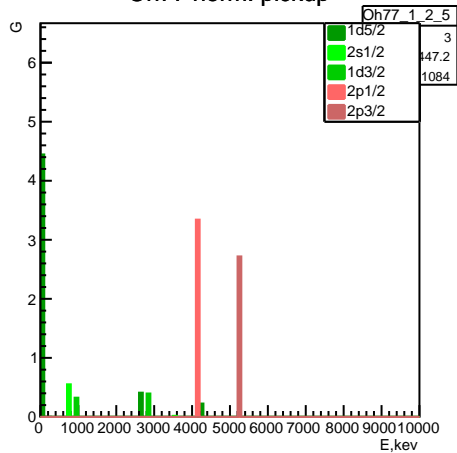
-13792.4 2s1/2 0.547388 0.65868

-11432 1d3/2 0.362411 1.1217

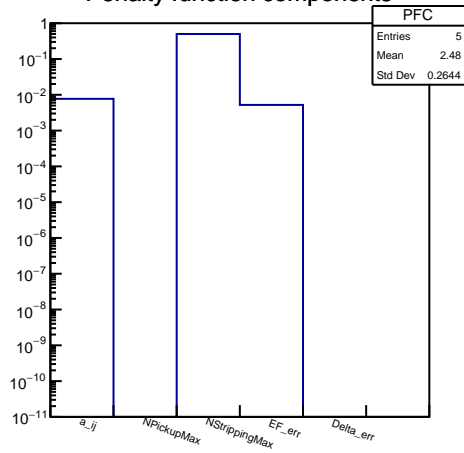
-14855.8 1p1/2 0.636296 1.14014

-15116.2 1p3/2 0.594839 0.793345

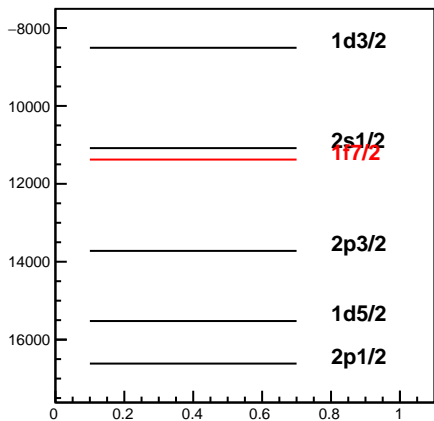
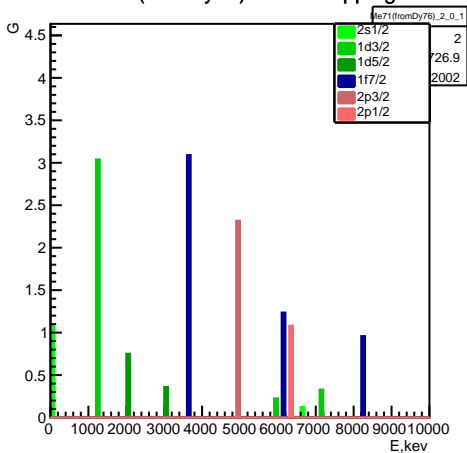
Oh77 norm. pickup



Penalty function components



Me71(fromDy76) norm. stripping



Experiment: Oh77 (9) Me71(fromDy76) (12)

neutron transfer_norm

 $n^+ = 1.03027 \pm 0$ $n^- = 1.41582 \pm 0$

penalty: 0.126956

 $E_F: -12306.2 \pm 9.31652$ keV $\Delta: -3656.05 \pm 16.1168$ keVSPE,kev nlj OCC $\frac{G^+ + G^-}{2J+1}$

-15522.6 1d5/2 0.830841 1.03258

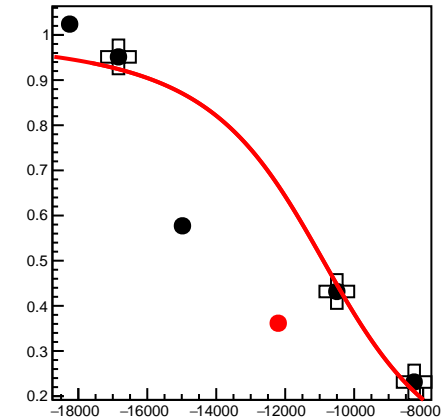
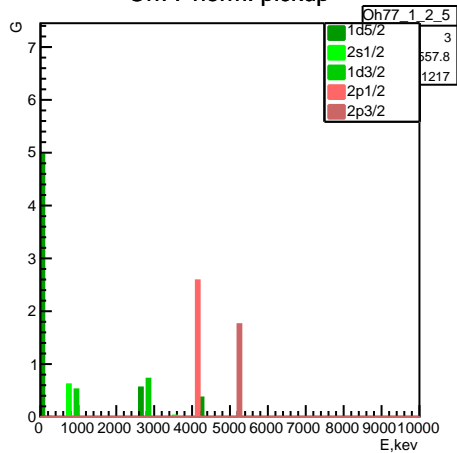
-11083.1 2s1/2 0.34129 0.887995

-8507.4 1d3/2 0.140803 1.07943

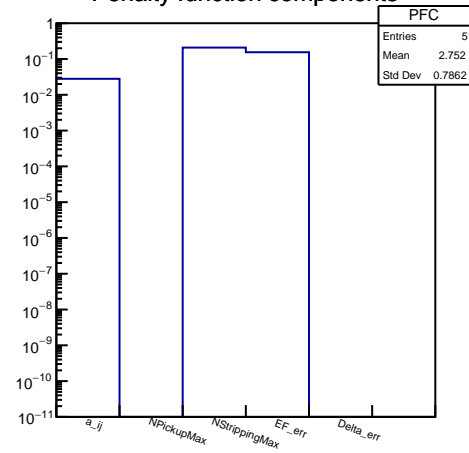
-16614.8 2p1/2 1.06489 2.21156

-13721.7 2p3/2 0.550033 1.25912

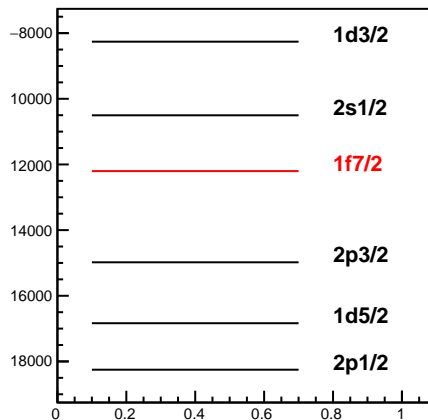
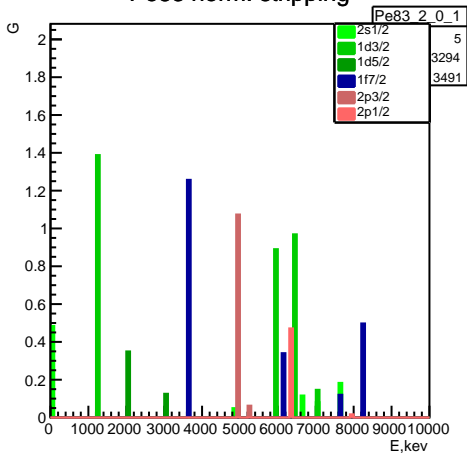
Oh77 norm. pickup



Penalty function components



Pe83 norm. stripping



Experiment: Oh77 (9) Pe83 (19)

neutron transfer_norm

$$n^+ = 0.65479 \pm 0 \quad n^- = 1.18551 \pm 0$$

penalty: 0.127611

$$E_F: -10895 \pm 276.236 \text{ keV}$$

$$\Delta: -3705.87 \pm 653.237 \text{ keV}$$

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

$$-16835.9 \text{ 1d5/2 } 0.951383 \text{ 1.06123}$$

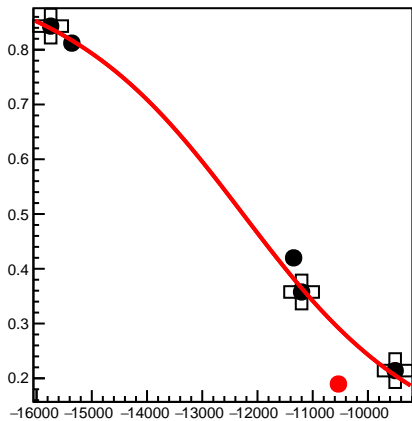
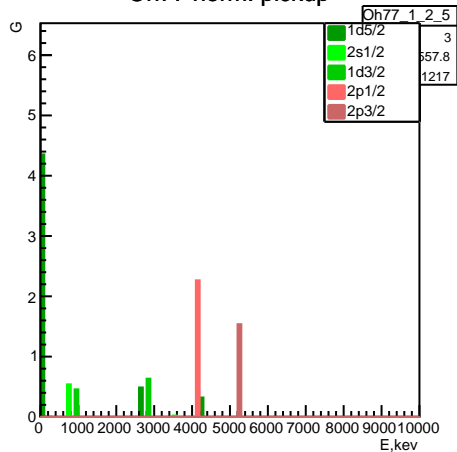
$$-10503.1 \text{ 2s1/2 } 0.431787 \text{ 0.778971}$$

$$-8260.08 \text{ 1d3/2 } 0.231294 \text{ 1.1598}$$

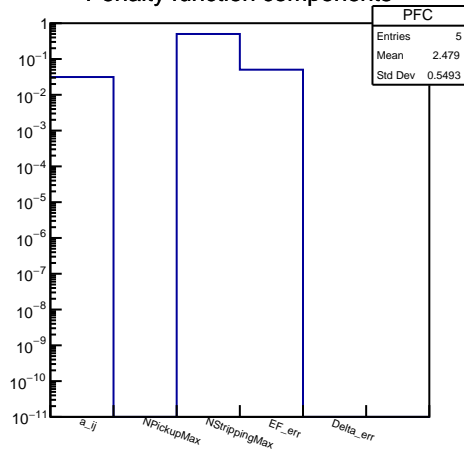
$$-18251.8 \text{ 2p1/2 } 1.02398 \text{ 1.53644}$$

$$-14980.2 \text{ 2p3/2 } 0.57723 \text{ 0.722817}$$

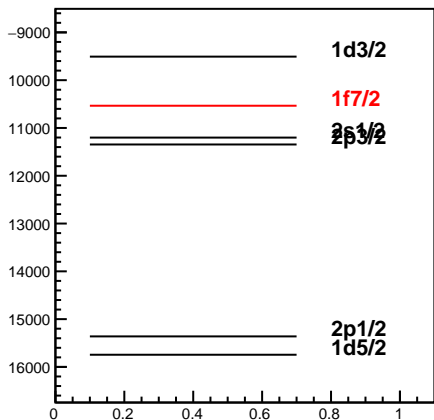
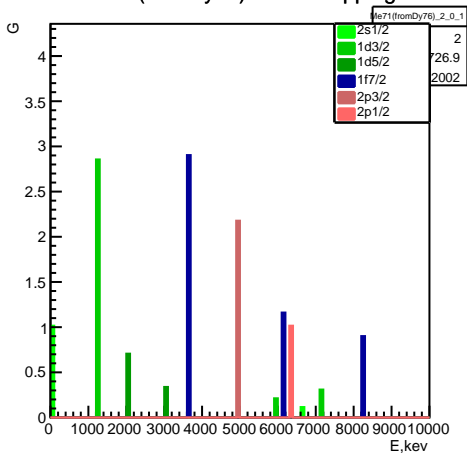
Oh77 norm. pickup



Penalty function components



Me71(fromDy76) norm. stripping



Experiment: Oh77 (9) Me71(fromDy76) (12)

neutron transfer_norm

 $n^+ = 0.968062 \pm 0$ $n^- = 1.03889 \pm 0$

penalty: 0.137603

 $E_F: -12263.5 \pm 89.8866$ keV $\Delta: 3777.08 \pm 170.372$ keVSPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-15745.1 1d5/2 0.843149 1.0348

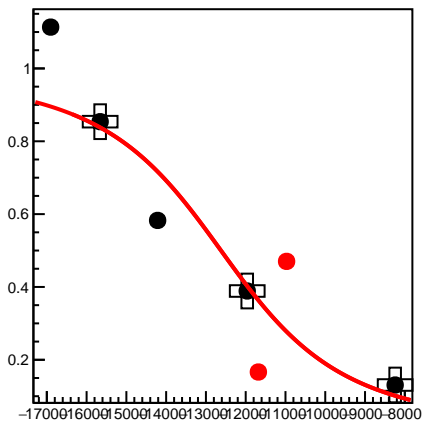
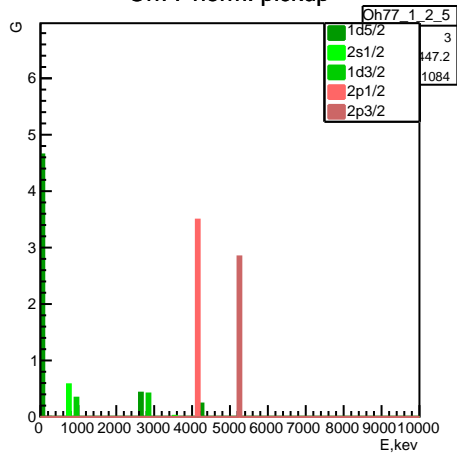
-11201.5 2s1/2 0.357612 0.847856

-9507.36 1d3/2 0.214038 1.11734

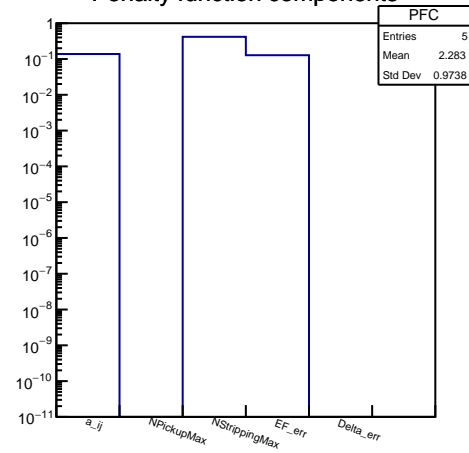
-15361.3 2p1/2 0.812081 1.64063

-11345.6 2p3/2 0.419928 0.928925

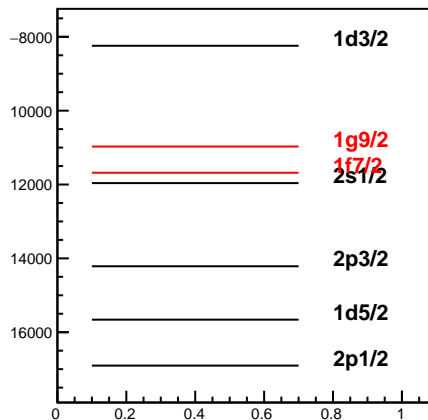
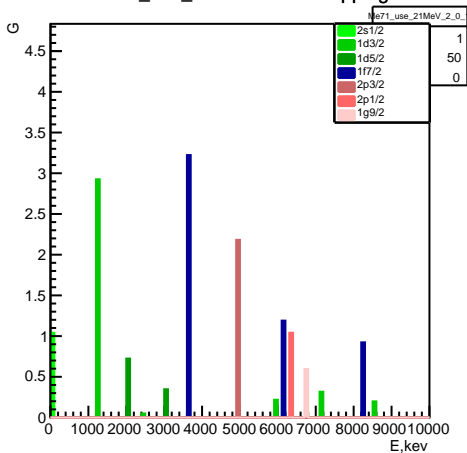
Oh77 norm. pickup



Penalty function components



Me71_use_21MeV norm. stripping



Experiment: Oh77 (9) Me71_use_21MeV (14)

neutron transfer_norm

 $n^+ = 0.991787 \pm 0$ $n^- = 1.4811 \pm 0$

penalty: 0.161859

 $E_F: -12621 \pm 228.088$ keV $\Delta: 3313.28 \pm 492.352$ keVSPE,kev nlj OCC $\frac{G^+ + G^-}{2J+1}$

-15659.5 1d5/2 0.853834 1.06471

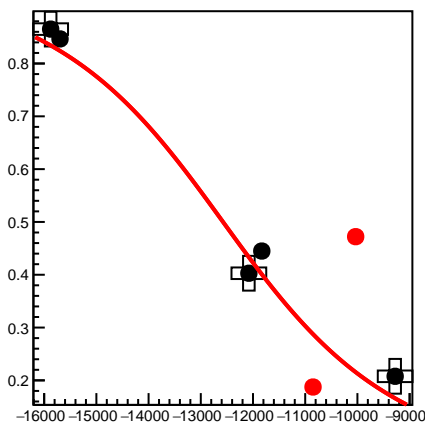
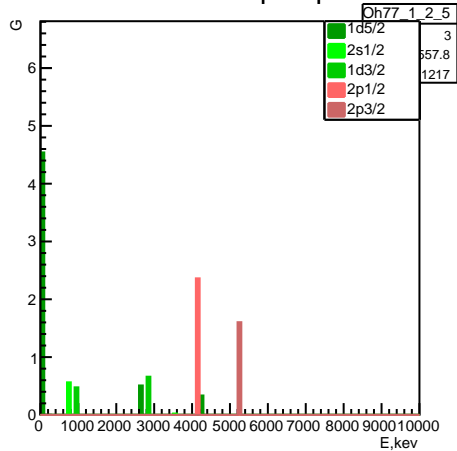
-11961.7 2s1/2 0.388876 0.819129

-8242.44 1d3/2 0.130759 1.11616

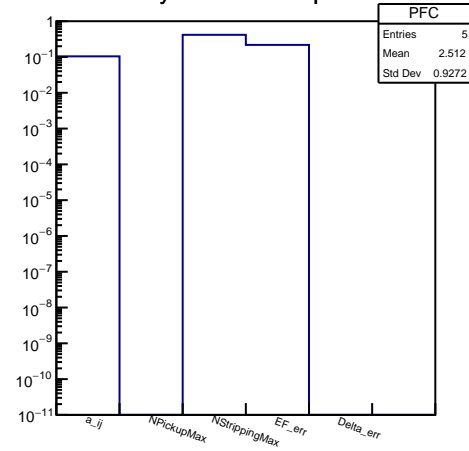
-16903.9 2p1/2 1.1135 2.26838

-14214.2 2p3/2 0.582722 1.25641

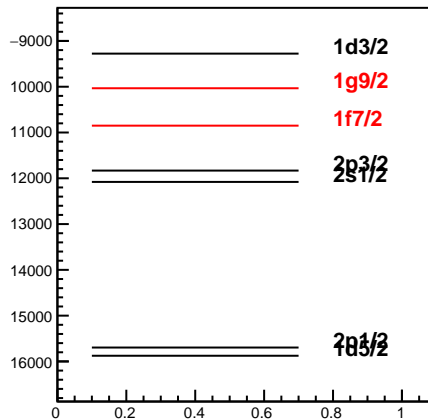
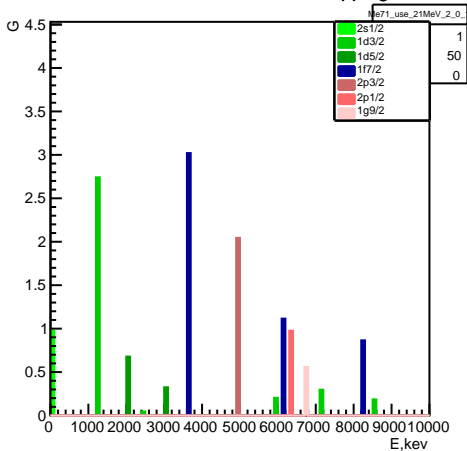
Oh77 norm. pickup



Penalty function components



Me71_use_21MeV norm. stripping



Experiment: Oh77 (9) Me71_use_21MeV (14)

neutron transfer_norm

 $n^+ = 0.929439 \pm 0$ $n^- = 1.08363 \pm 0$

penalty: 0.170865

 $E_F: -12574.1 \pm 389.402$ keV $\Delta: 3672.61 \pm 836.993$ keVSPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-15875.9 1d5/2 0.865153 1.0649

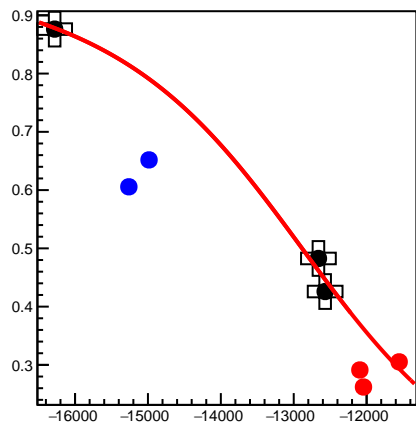
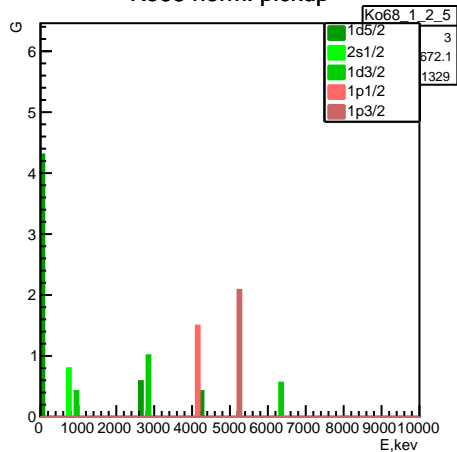
-12079.2 2s1/2 0.402854 0.781619

-9277.03 1d3/2 0.207713 1.15348

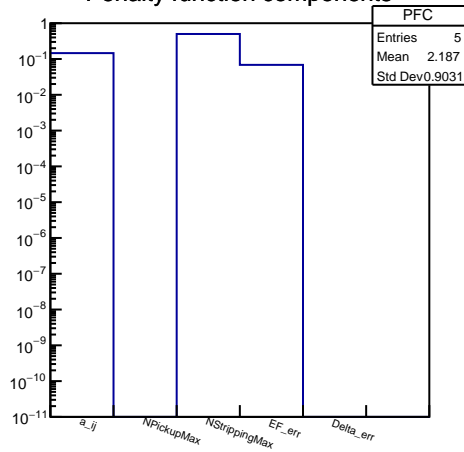
-15696.5 2p1/2 0.846599 1.66911

-11831.7 2p3/2 0.444875 0.912134

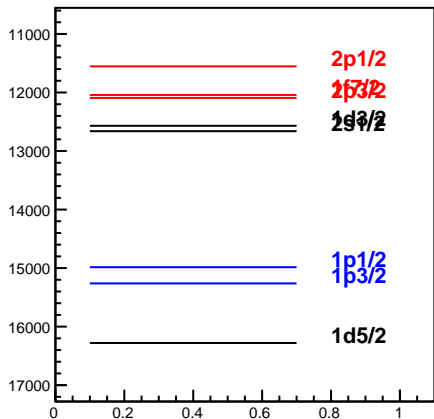
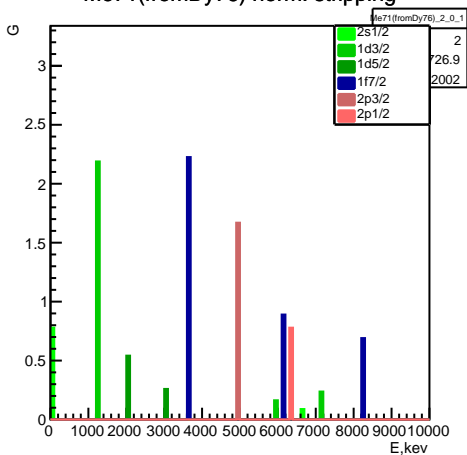
Ko68 norm. pickup



Penalty function components



Me71(fromDy76) norm. stripping



Experiment: Ko68 (9) Me71(fromDy76) (12)

neutron transfer_norm

$$n^+ = 0.742054 \pm 0 \quad n^- = 1.24817 \pm 0$$

penalty: 0.172525

$$E_F: -12885.7 \pm 122.592 \text{ keV}$$

$$\Delta: 2936.71 \pm 504.402 \text{ keV}$$

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

$$-16279.9 \text{ 1d5/2 } 0.876316 \text{ 1.01977}$$

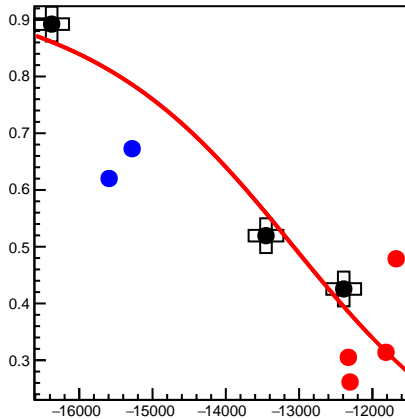
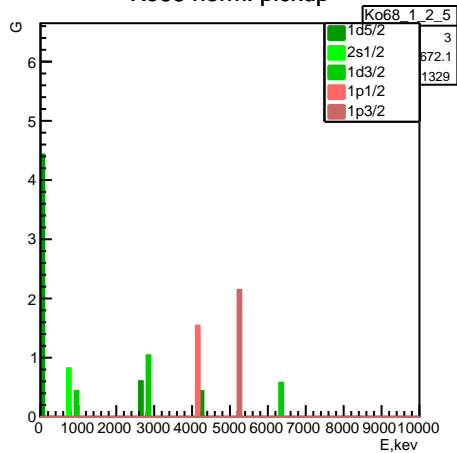
$$-12661.1 \text{ 2s1/2 } 0.482657 \text{ 0.833517}$$

$$-12568.9 \text{ 1d3/2 } 0.425913 \text{ 1.14671}$$

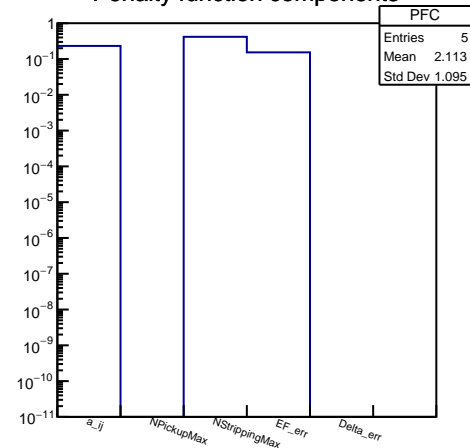
$$-14985 \text{ 1p1/2 } 0.651835 \text{ 1.19414}$$

$$-15261.9 \text{ 1p3/2 } 0.605652 \text{ 0.83092}$$

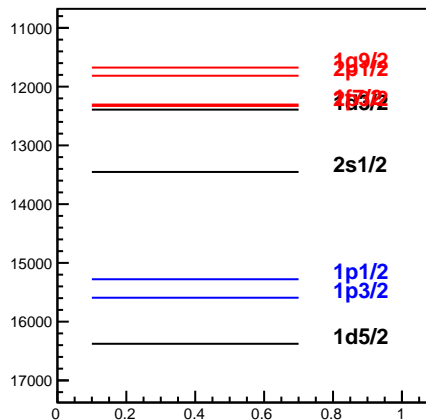
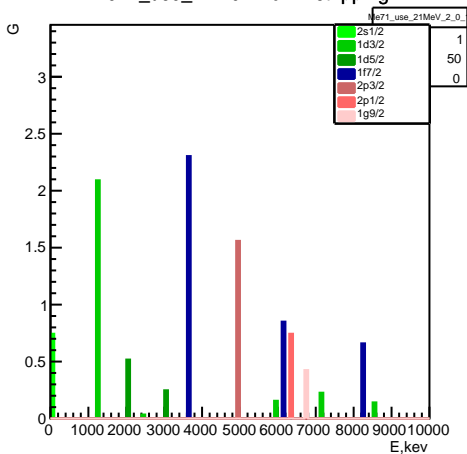
Ko68 norm. pickup



Penalty function components



Me71_use_21MeV norm. stripping



Experiment: Ko68 (9) Me71_use_21MeV (14)

neutron transfer_norm

 $n^+ = 0.708948 \pm 0$ $n^- = 1.28484 \pm 0$

penalty: 0.186525

 $E_F: -13074 \pm 274.173$ keV $\Delta: 3165.01 \pm 834.868$ keVSPE,kev nlj OCC $\frac{G^+ + G^-}{2J+1}$

-16376.6 1d5/2 0.892314 1.03985

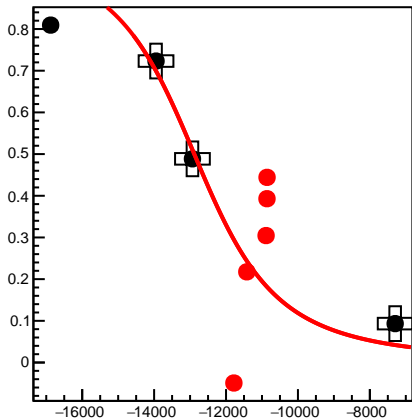
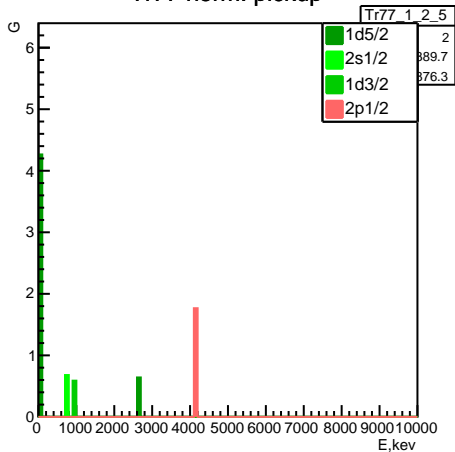
-13452.1 2s1/2 0.519476 0.783347

-12391.3 1d3/2 0.425536 1.1768

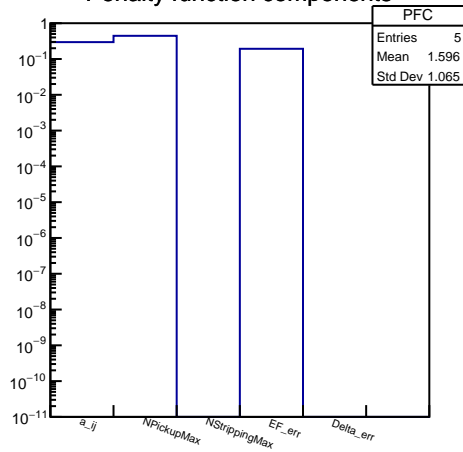
-15278.3 1p1/2 0.672769 1.19627

-15592.8 1p3/2 0.620218 0.832408

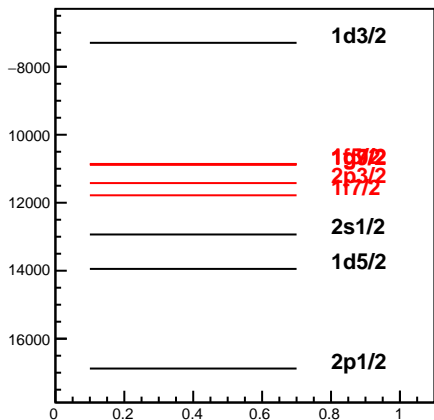
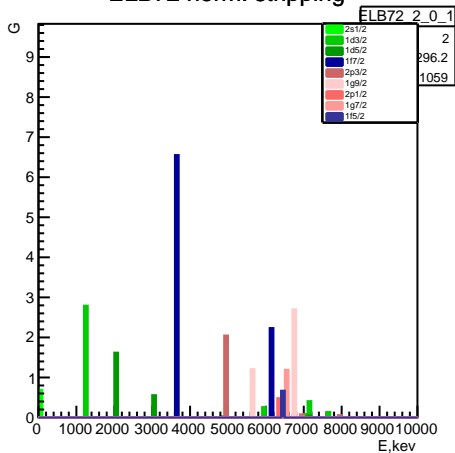
Tr77 norm. pickup



Penalty function components



ELB72 norm. stripping



Experiment: Tr77 (5) ELB72 (24)

neutron transfer_norm

 $n^+ = 0.930778 \pm 0$ $n^- = 1.30832 \pm 0$

penalty: 0.216602

 $E_F: -12883.4 \pm 344.838$ keV $\Delta: 2446.79 \pm 1363.82$ keVSPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-13946.6 1d5/2 0.723161 1.18908

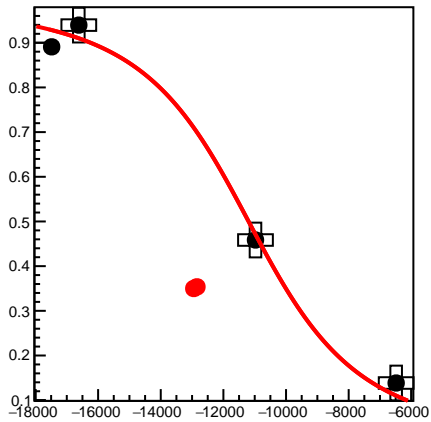
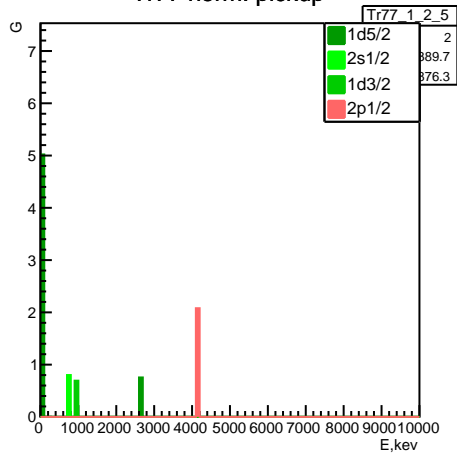
-12934 2s1/2 0.48858 0.703168

-7296.18 1d3/2 0.0933117 1.10775

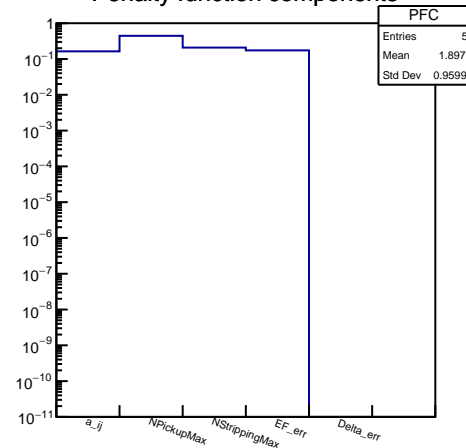
-16877.7 2p1/2 0.809389 1.14746

-11781.6 1f7/2 -0.0491591 1.09832

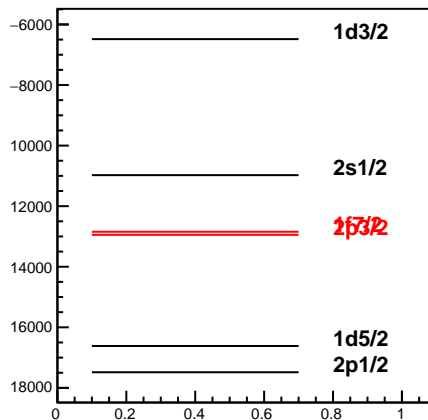
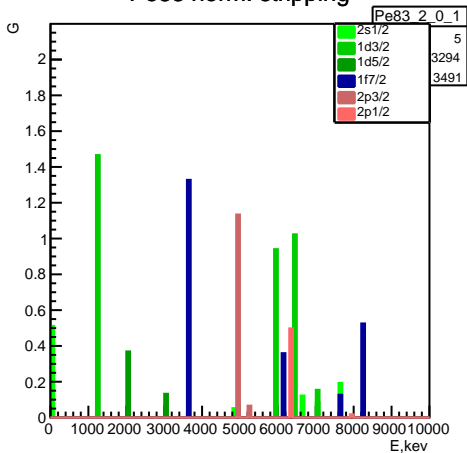
Tr77 norm. pickup



Penalty function components



Pe83 norm. stripping



Experiment: Tr77 (5) Pe83 (19)

neutron transfer_norm

 $n^+ = 0.691672 \pm 0$ $n^- = 1.54027 \pm 0$

penalty: 0.270221

 $E_F: -11195.6 \pm 311.432$ keV $\Delta: 3784.05 \pm 788.059$ keVSPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-16616.4 1d5/2 0.939489 1.04636

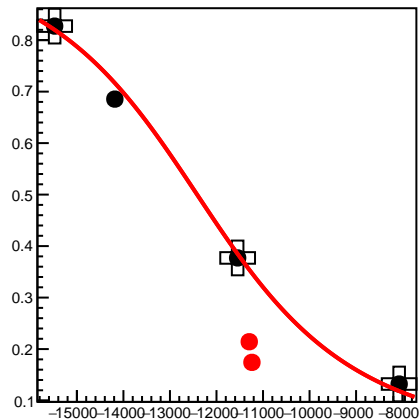
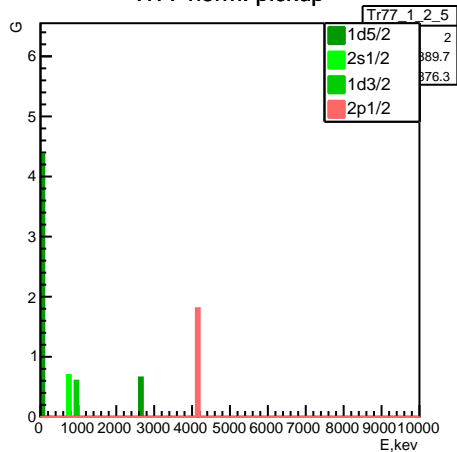
-10975.5 2s1/2 0.458496 0.88395

-6484.14 1d3/2 0.138437 1.06969

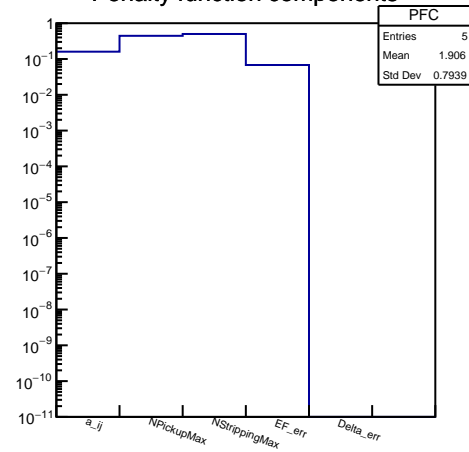
-17483.4 2p1/2 0.890845 1.29768

-12844.5 1f7/2 0.353711 0.292577

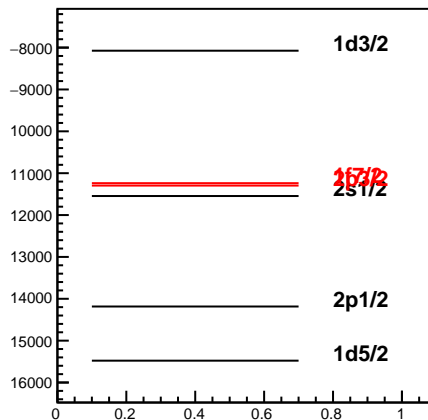
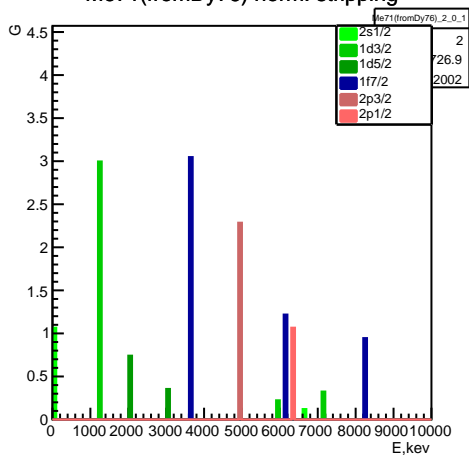
Tr77 norm. pickup



Penalty function components



Me71(fromDy76) norm. stripping



Experiment: Tr77 (5) Me71(fromDy76) (12)

neutron transfer_norm

$$n^+ = 1.01595 \pm 0 \quad n^- = 1.33973 \pm 0$$

penalty: 0.281031

$$E_F: -12416.1 \pm 121.538 \text{ keV}$$

$$\Delta: 3676.96 \pm 243.221 \text{ keV}$$

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

$$-15478.1 \text{ 1d5/2 } 0.827228 \text{ 1.0202}$$

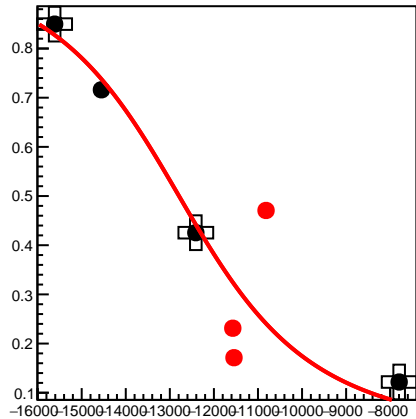
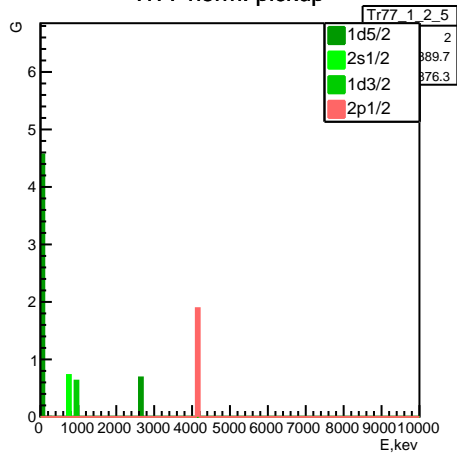
$$-11545.3 \text{ 2s1/2 } 0.376998 \text{ 0.942661}$$

$$-8074.18 \text{ 1d3/2 } 0.13215 \text{ 1.03714}$$

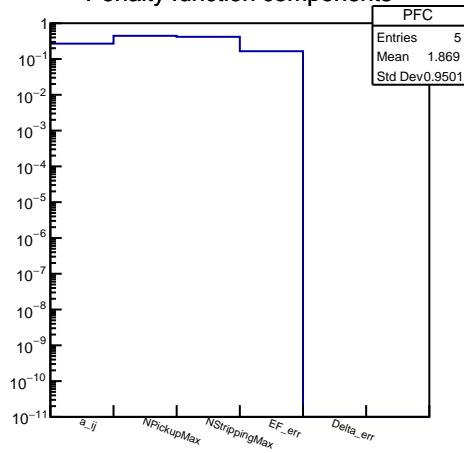
$$-14184.5 \text{ 2p1/2 } 0.68547 \text{ 1.43769}$$

$$-11238.2 \text{ 1f7/2 } 0.174196 \text{ 0.651607}$$

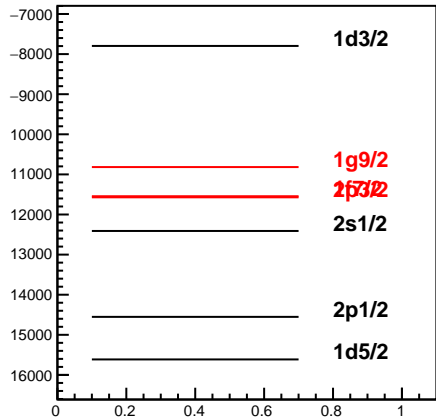
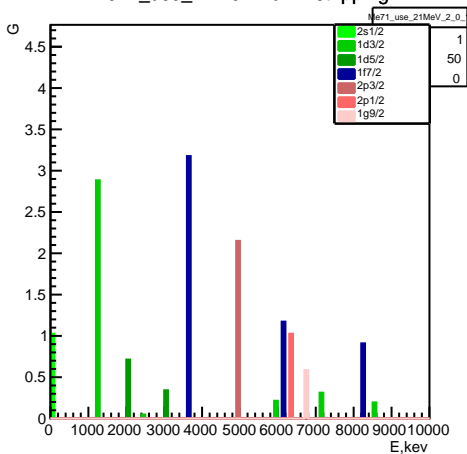
Tr77 norm. pickup



Penalty function components



Me71_use_21MeV norm. stripping



Experiment: Tr77 (5) Me71_use_21MeV (14)

neutron transfer_norm

 $n^+ = 0.977479 \pm 0$ $n^- = 1.40044 \pm 0$

penalty: 0.305763

 $E_F: -12791.4 \pm 295.004$ keV $\Delta: 3255.33 \pm 731.632$ keVSPE,keV nlj OCC $\frac{G^+ + G^-}{2J+1}$

-15613.7 1d5/2 0.849663 1.05122

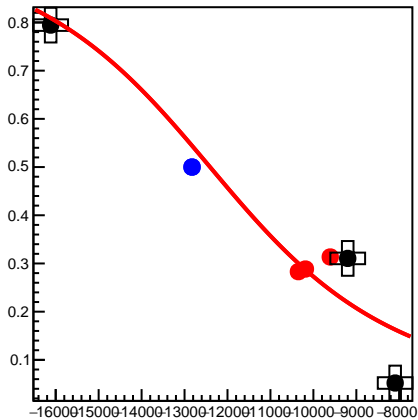
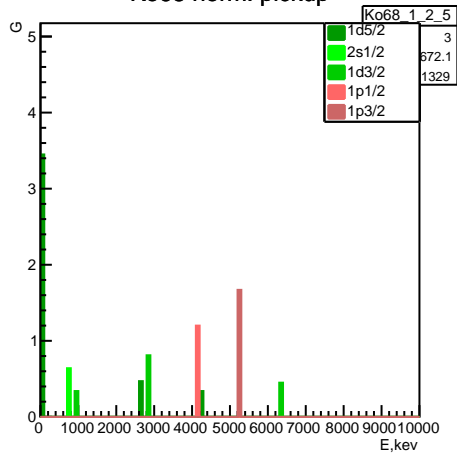
-12410.2 2s1/2 0.425468 0.87729

-7796.63 1d3/2 0.121803 1.07149

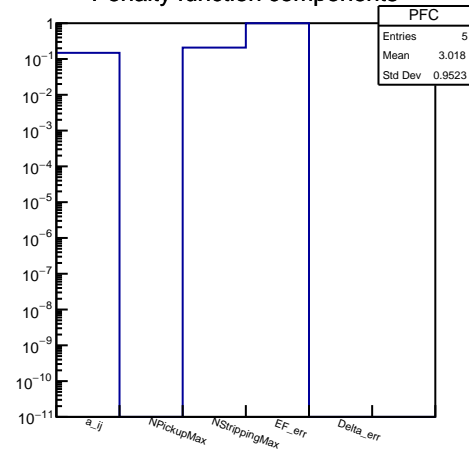
-14552.3 2p1/2 0.716059 1.45847

-11544.3 1f7/2 0.171262 0.657477

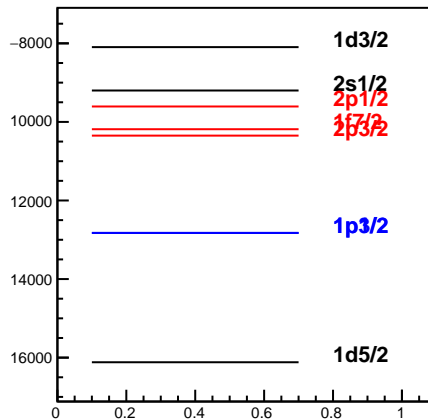
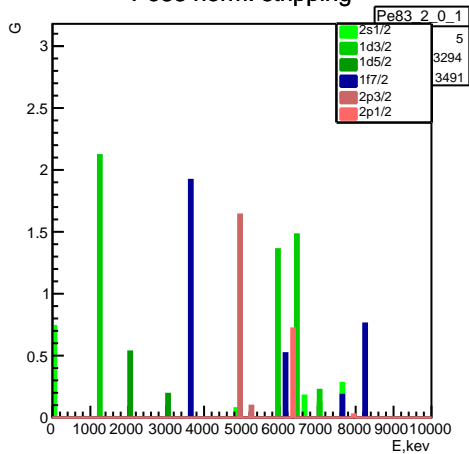
Ko68 norm. pickup



Penalty function components



Pe83 norm. stripping



Experiment: Ko68 (9) Pe83 (19)

penalty: 0.311482

Normalization was not performed.