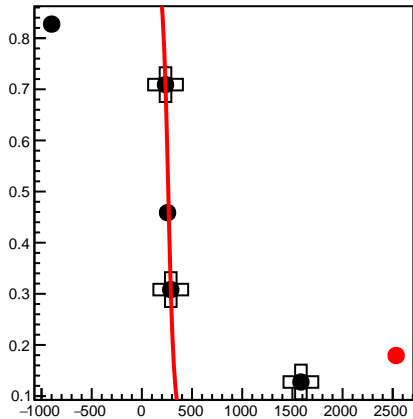
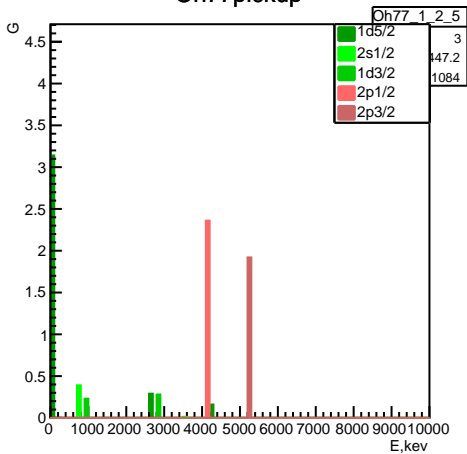
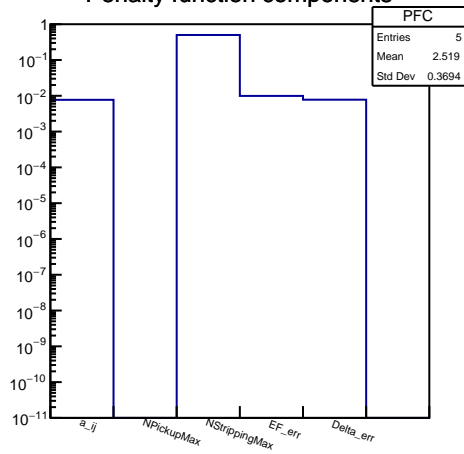


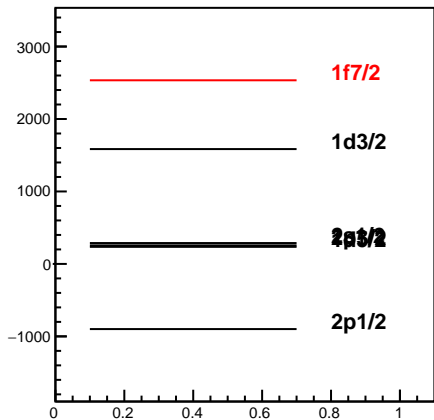
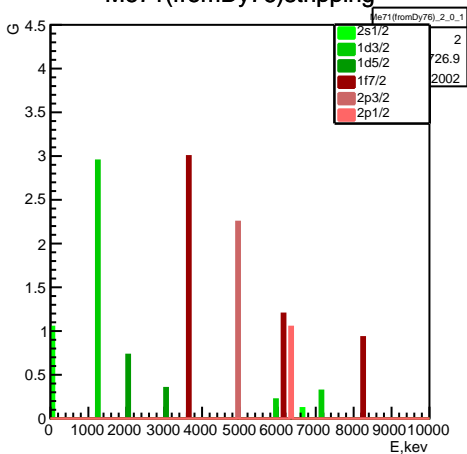
Oh77pickup



Penalty function components



Me71(fromDy76)stripping



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

neutron transfer

n separation energy A:0, A+1: 0

 E_F : 263.133 \pm 13.9681 keV Δ : -59.8917 \pm 32.1201 keV

penalty: 0.105083

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

235.611 1d5/2 0.709167 0.778333

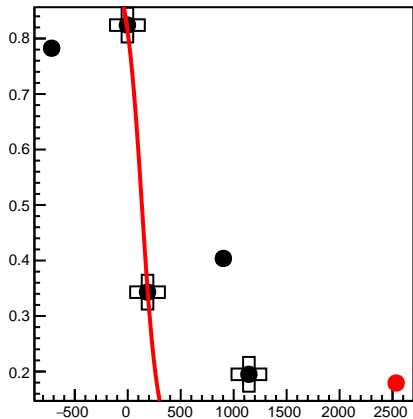
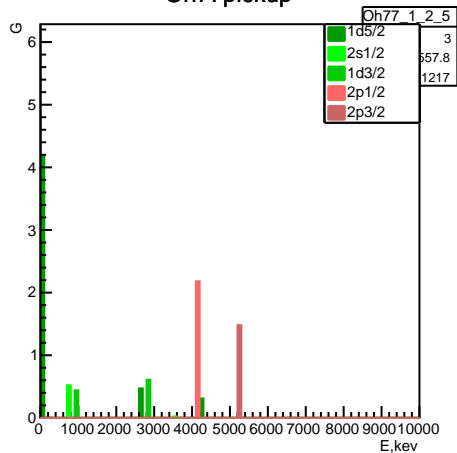
287.945 2s1/2 0.30825 0.7865

1584.87 1d3/2 0.1275 1

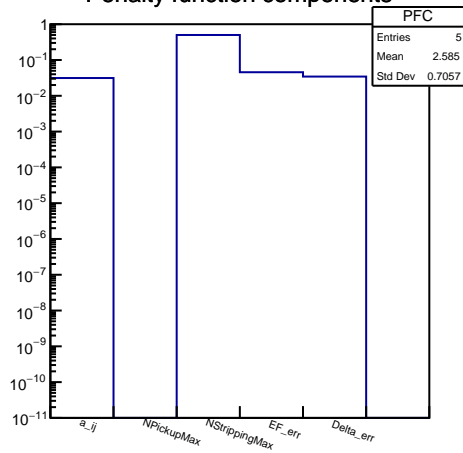
-899.136 2p1/2 0.8275 1.705

255.878 2p3/2 0.45875 1.0425

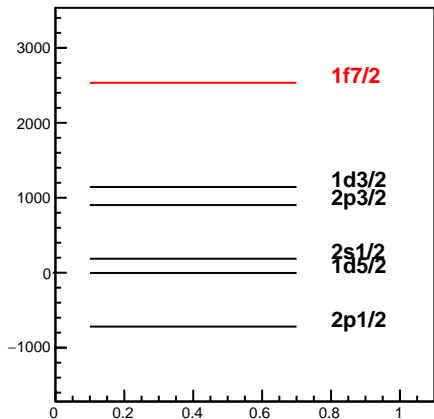
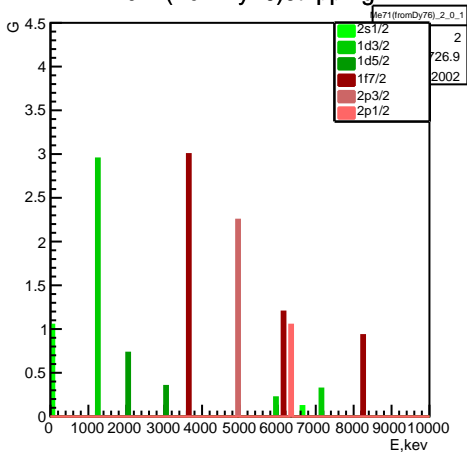
Oh77pickup



Penalty function components



Me71(fromDy76)stripping



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

neutron transfer

n separation energy A:0, A+1: 0

E_F: 133.247 ± 64.1339 keV

Δ: 168.014 ± 142.215 keV

penalty: 0.122273

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

-3.24684 1d5/2 0.824167 1.00833

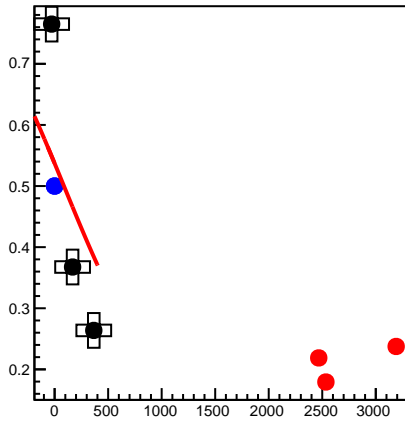
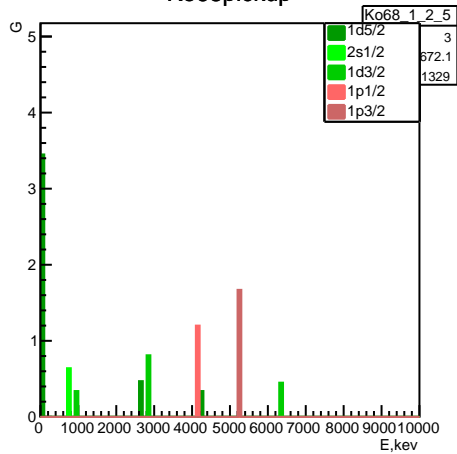
186.658 2s1/2 0.343 0.856

1143.73 1d3/2 0.195 1.135

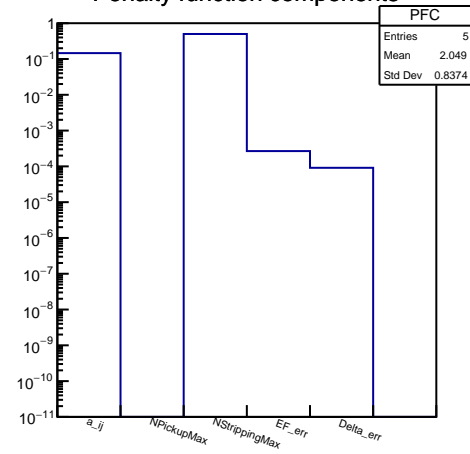
-718.637 2p1/2 0.7825 1.615

902.651 2p3/2 0.40375 0.9325

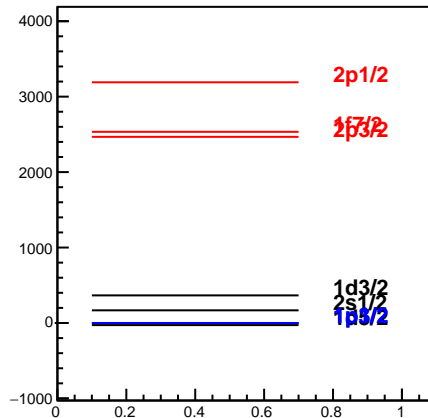
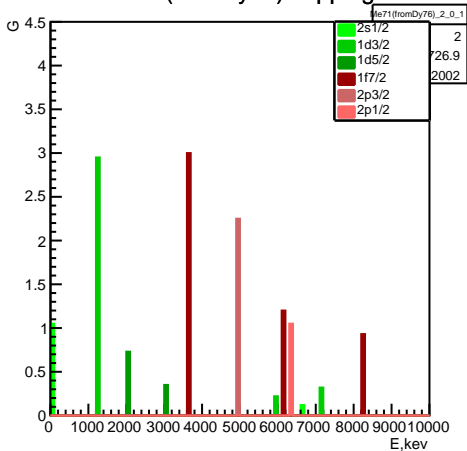
Ko68pickup



Penalty function components



Me71(fromDy76)stripping



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

neutron transfer

n separation energy A:0, A+1: 0

E_F: 87.0472 \pm 0.376567 keV Δ : 1171.52 \pm 0.376567 keV

penalty: 0.129287

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

-27.7752 1d5/2 0.765 0.89

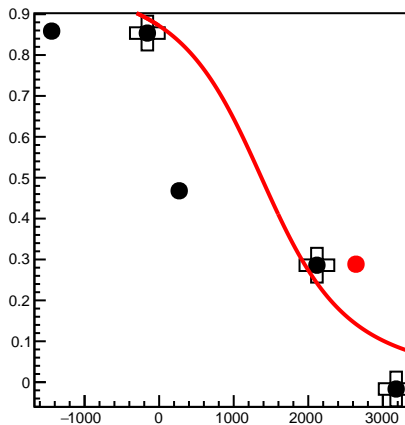
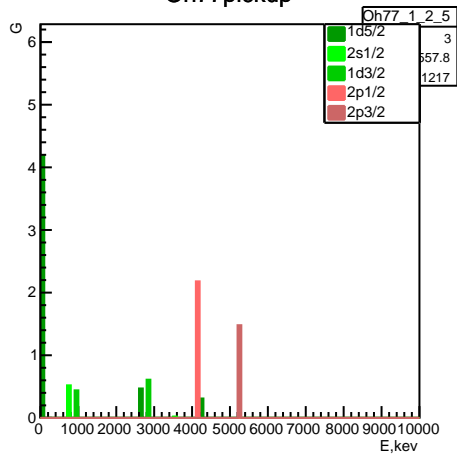
167.81 2s1/2 0.3675 0.905

365.819 1d3/2 0.26375 1.2725

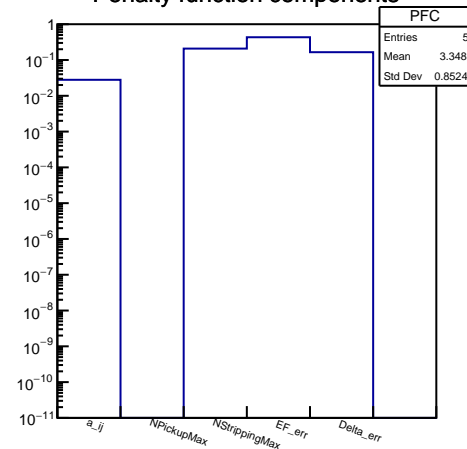
0 1p1/2 0.5 1.2

0 1p3/2 0.5 0.835

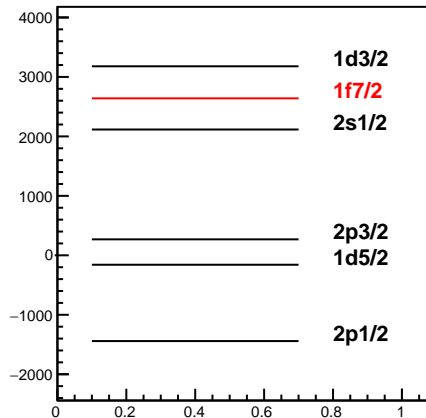
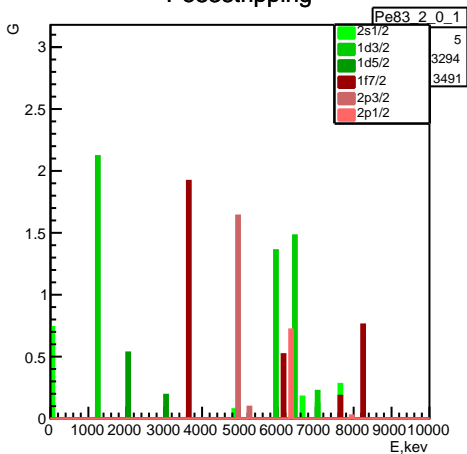
Oh77pickup



Penalty function components



Pe83stripping



Experiment: Oh77 (9) Pe83 (19)

neutron transfer

n separation energy A:0, A+1: 0

E_F: 1372.32 ± 608.846 keV

Δ: -1236.01 ± 682.53 keV

penalty: 0.166808

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

-158.329 1d5/2 0.853667 0.949333

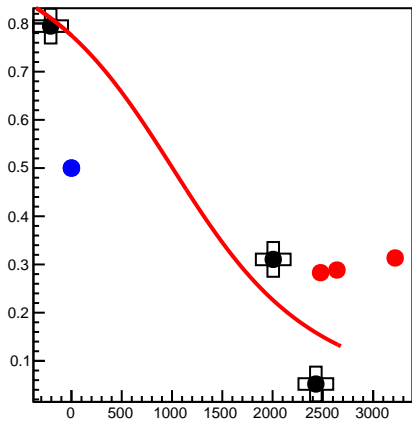
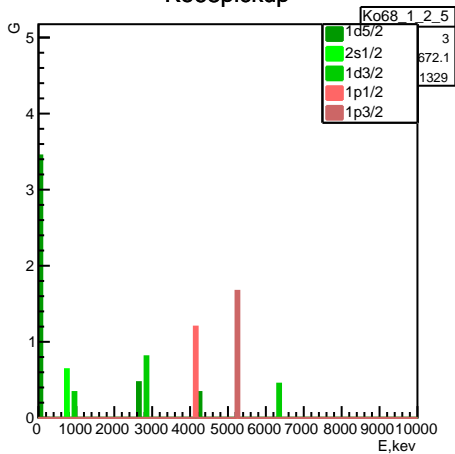
2115.83 2s1/2 0.286 0.97

3178.73 1d3/2 -0.01675 1.5585

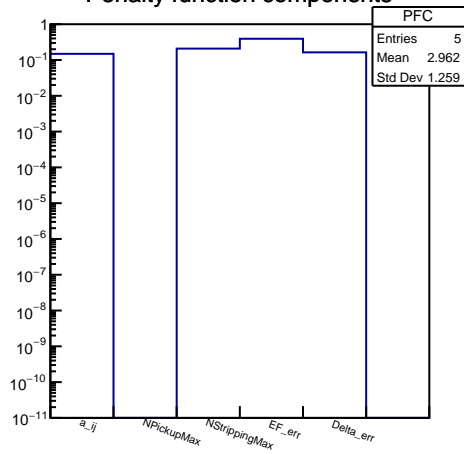
-1441.9 2p1/2 0.8585 1.463

268.693 2p3/2 0.468 0.804

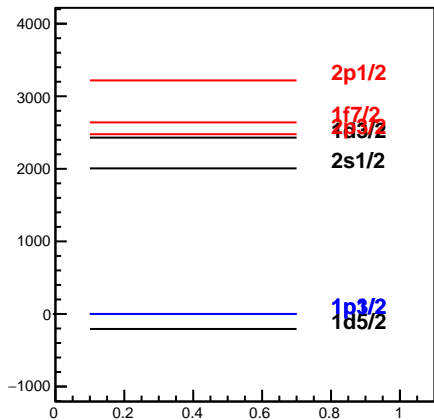
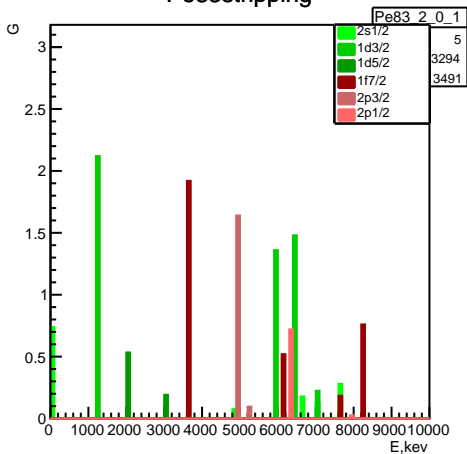
Ko68pickup



Penalty function components



Pe83stripping



Experiment: Ko68 (9) Pe83 (19)

neutron transfer

n separation energy A:0, A+1: 0

 E_F : 1005.33 \pm 552.279 keV Δ : 1525 \pm 675.302 keV

penalty: 0.182553

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

-206.682 1d5/2 0.7945 0.831

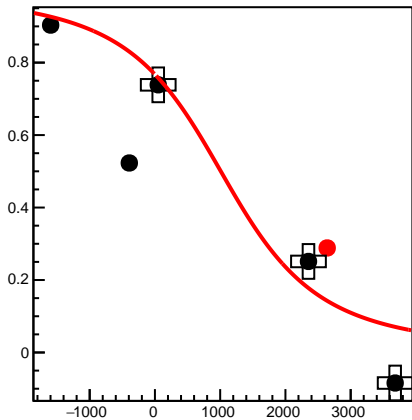
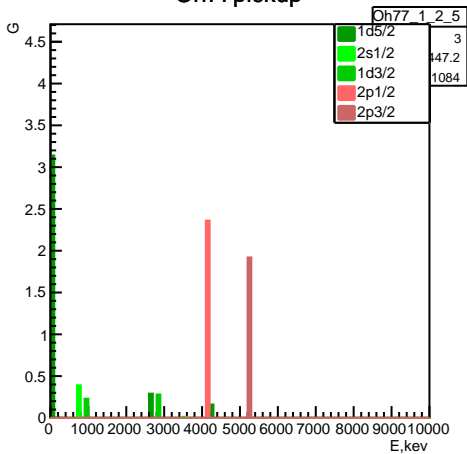
2006.32 2s1/2 0.3105 1.019

2430.08 1d3/2 0.052 1.696

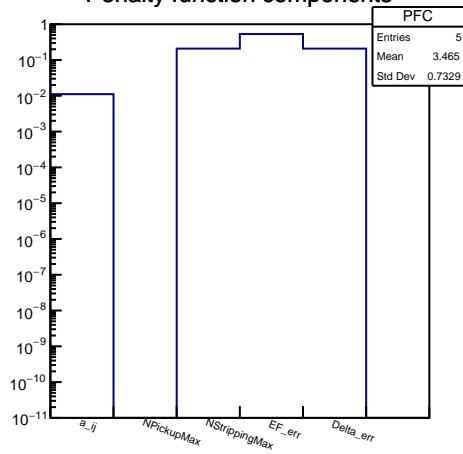
0 1p1/2 0.5 1.2

0 1p3/2 0.5 0.835

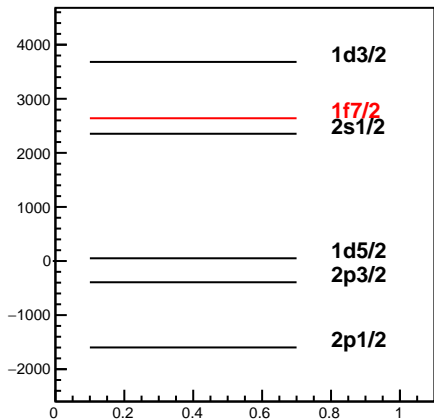
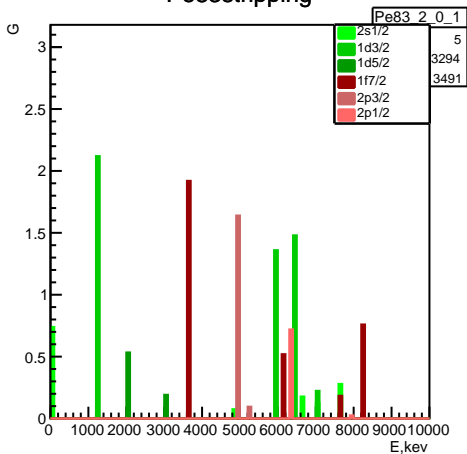
Oh77pickup



Penalty function components



Pe83stripping



Experiment: Oh77 (9) Pe83 (19)

neutron transfer

n separation energy A:0, A+1: 0

 $E_F: 1009.7 \pm 748.585 \text{ keV}$ $\Delta: 1594.21 \pm 858.922 \text{ keV}$

penalty: 0.19183

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

50.5341 1d5/2 0.738667 0.719333

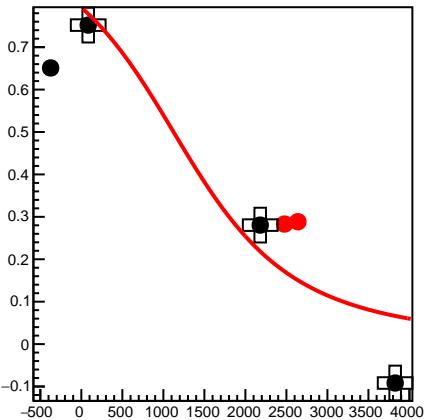
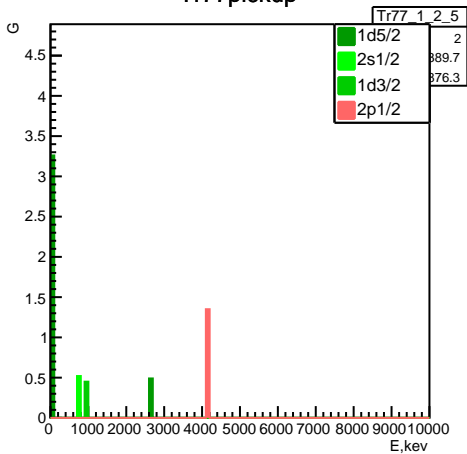
2353.18 2s1/2 0.25125 0.9005

3681.62 1d3/2 -0.08425 1.4235

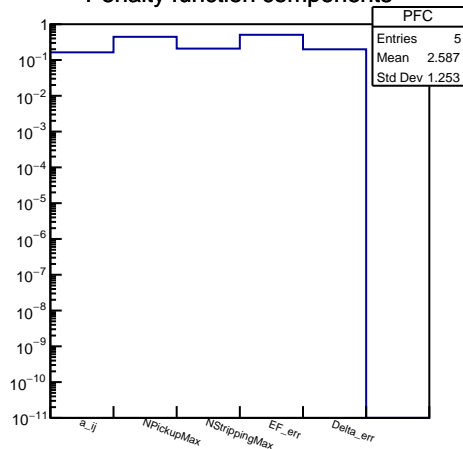
-1598.15 2p1/2 0.9035 1.553

-392.715 2p3/2 0.523 0.914

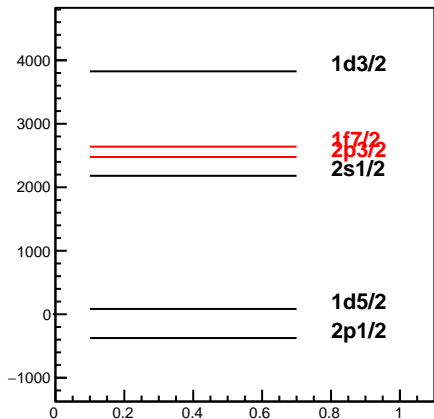
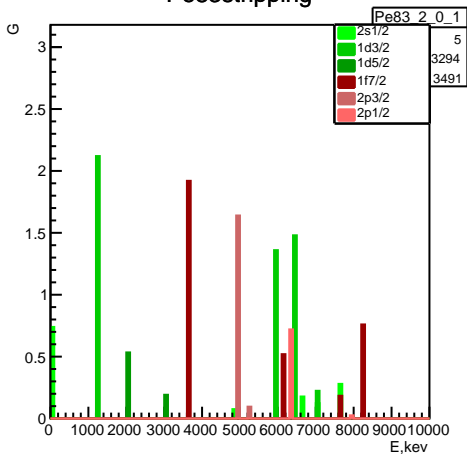
Tr77pickup



Penalty function components



Pe83stripping



Experiment: Tr77 (5) Pe83 (19)

neutron transfer

n separation energy A:0, A+1: 0

E_F: 1124.18 ± 712.641 keV

Δ: 1551.05 ± 821.509 keV

penalty: 0.304295

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

83.7483 1d5/2 0.752 0.746

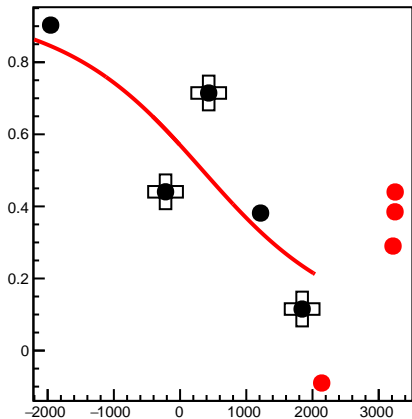
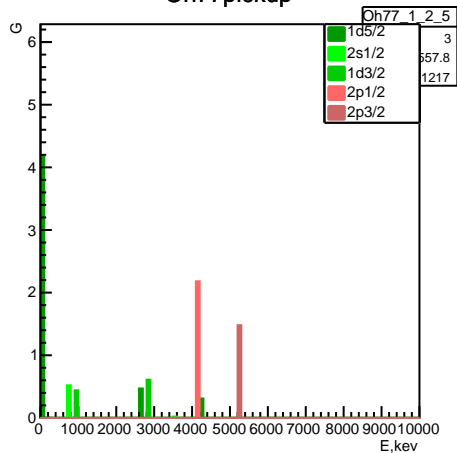
2180.7 2s1/2 0.2805 0.959

3825.89 1d3/2 -0.09175 1.4085

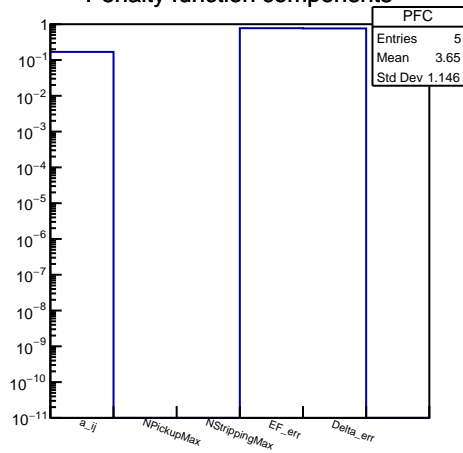
-374.225 2p1/2 0.651 1.048

2639.92 1f7/2 0.2885 0.423

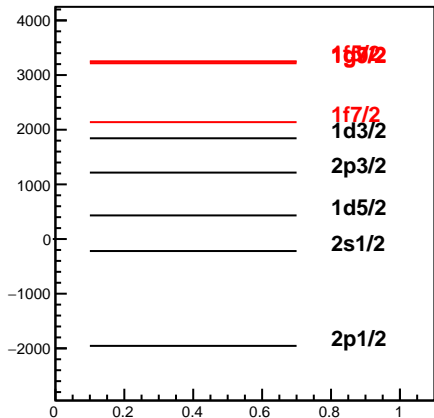
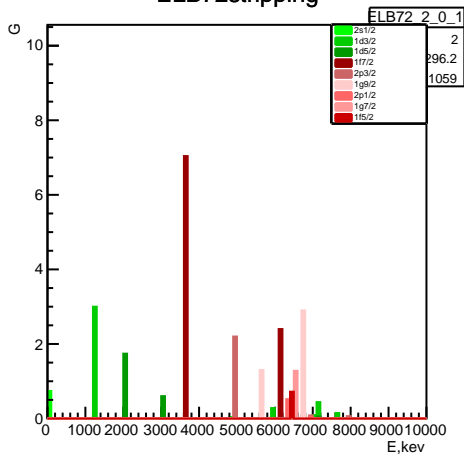
Oh77pickup



Penalty function components



ELB72stripping



Experiment: Oh77 (9) ELB72 (24)

neutron transfer

n separation energy A:0, A+1: 0

 $E_F: 340.817 \pm 1090.33 \text{ keV}$ $\Delta: -2408.19 \pm 3144.49 \text{ keV}$

penalty: 0.340889

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

432.047 1d5/2 0.714667 1.22733

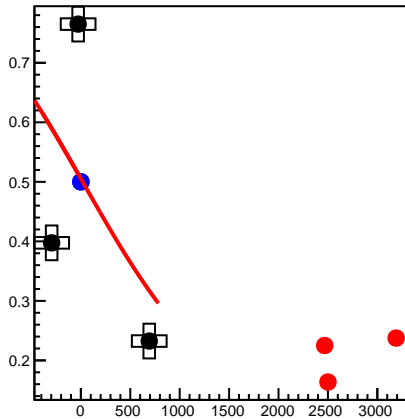
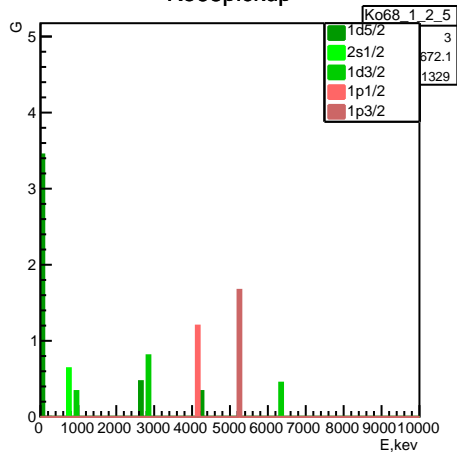
-219.625 2s1/2 0.4405 0.661

1843.22 1d3/2 0.11525 1.2945

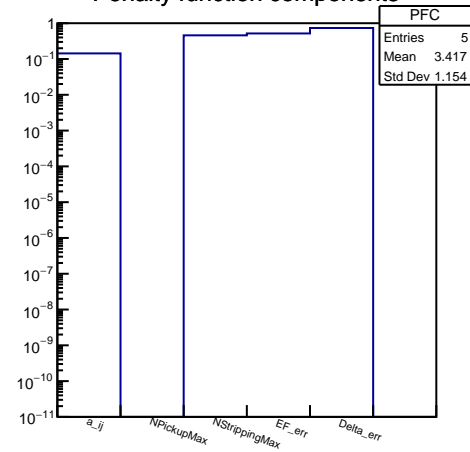
-1954.73 2p1/2 0.903 1.374

1215.45 2p3/2 0.3815 0.977

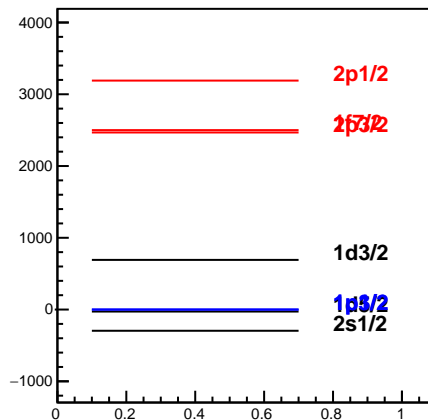
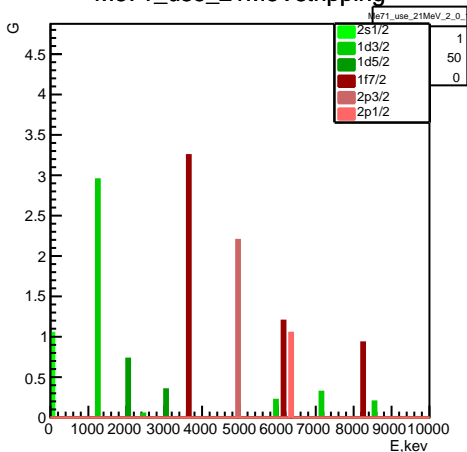
Ko68pickup



Penalty function components



Me71_use_21MeVstripping



Experiment: Ko68 (9) Me71_use_21MeV (13)

neutron transfer

n separation energy A:0, A+1: 0

E_F: 17.9636 ± 728.927 keV

Δ: -1714.83 ± 3034.93 keV

penalty: 0.370903

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

-27.7752 1d5/2 0.765 0.89

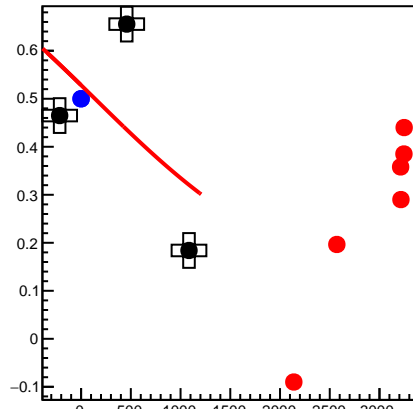
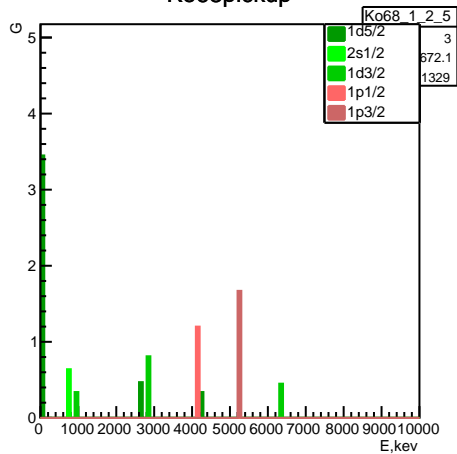
-295.725 2s1/2 0.3975 0.845

691.924 1d3/2 0.2325 1.335

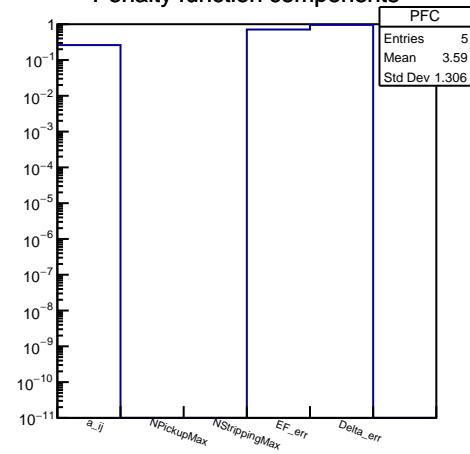
0 1p1/2 0.5 1.2

0 1p3/2 0.5 0.835

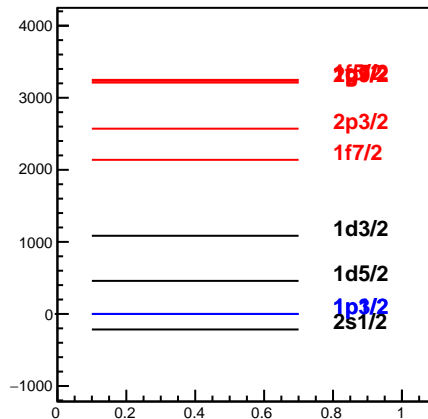
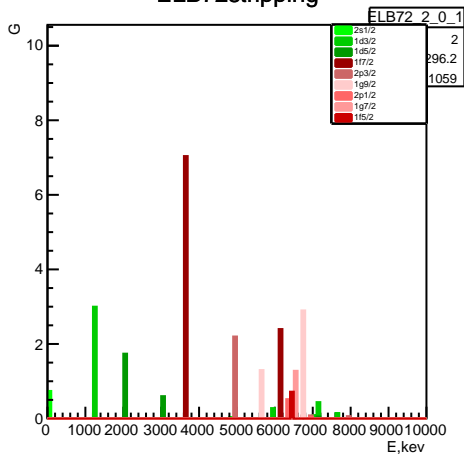
Ko68pickup



Penalty function components



ELB72stripping



Experiment: Ko68 (9) ELB72 (24)

neutron transfer

n separation energy A:0, A+1: 0

 $E_F: 139.583 \pm 1000.37 \text{ keV}$ $\Delta: 2460.38 \pm 3953.52 \text{ keV}$

penalty: 0.385842

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

458.81 1d5/2 0.6555 1.109

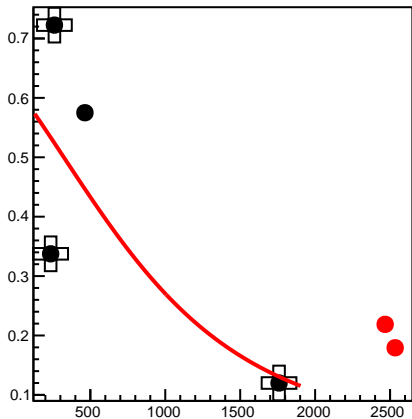
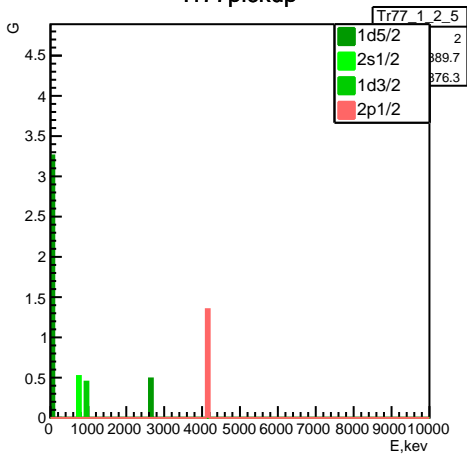
-215.611 2s1/2 0.465 0.71

1084.79 1d3/2 0.184 1.432

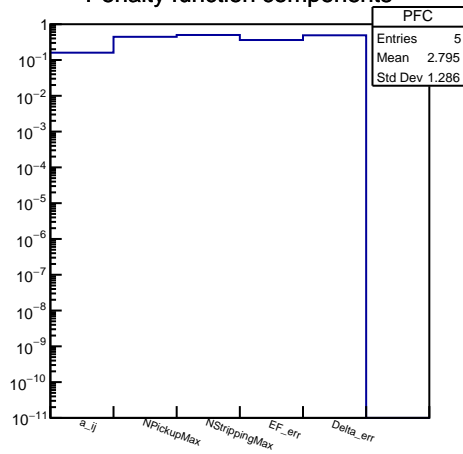
0 1p1/2 0.5 1.2

0 1p3/2 0.5 0.835

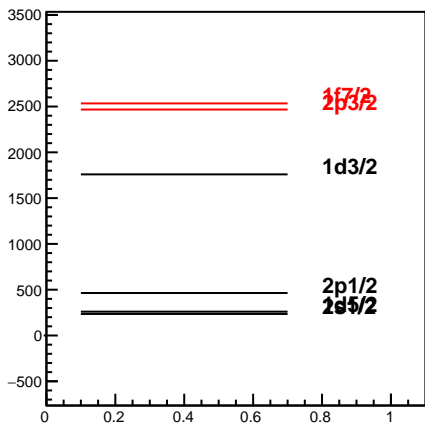
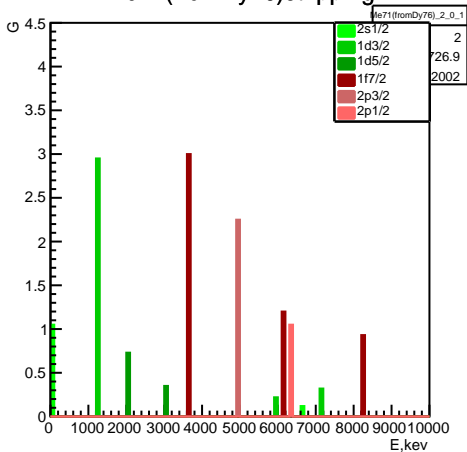
Tr77pickup



Penalty function components



Me71(fromDy76)stripping



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

neutron transfer

n separation energy A:0, A+1: 0

E_F: 323.031 ± 509.494 keV

Δ: 1310.29 ± 2022.92 keV

penalty: 0.391287

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

260.26 1d5/2 0.7225 0.805

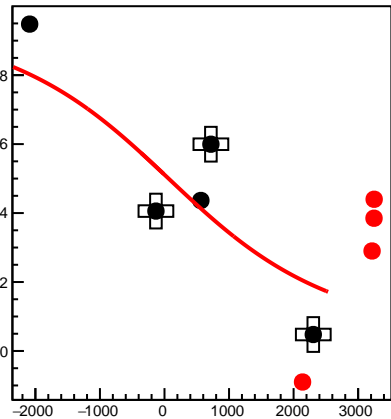
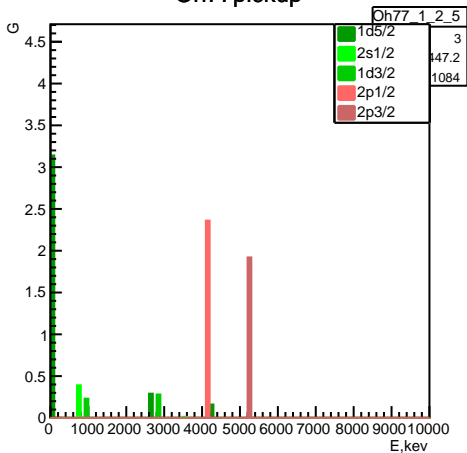
235.174 2s1/2 0.3375 0.845

1759.24 1d3/2 0.12 0.985

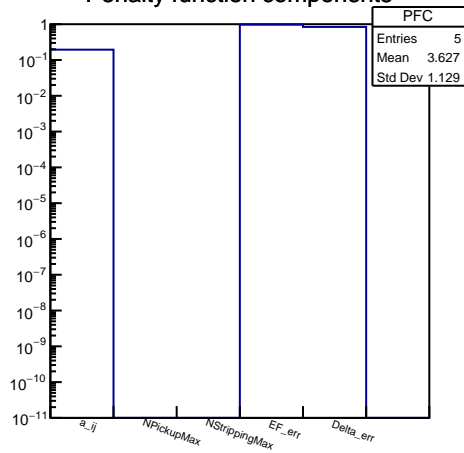
463.927 2p1/2 0.575 1.2

2534.09 1f7/2 0.179312 0.641375

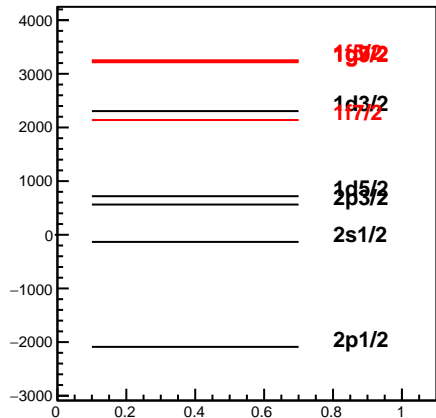
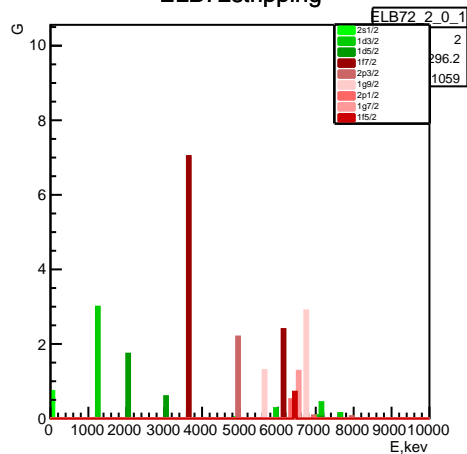
Oh77pickup



Penalty function components



ELB72stripping



Experiment: Oh77 (9) ELB72 (24)

neutron transfer

n separation energy A:0, A+1: 0

E_F: 63.7428 ± 1370.13 keV

Δ: 2834.93 ± 3464.16 keV

penalty: 0.401328

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

718.841 1d5/2 0.599667 0.997333

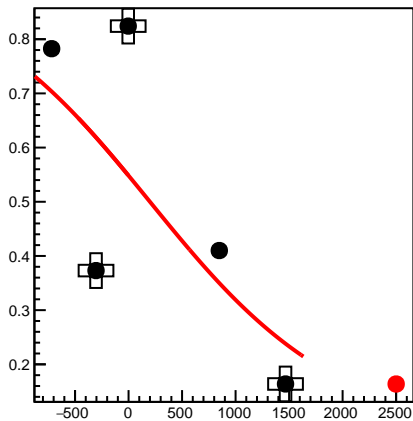
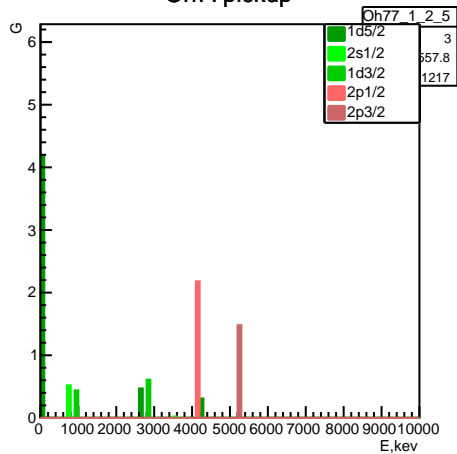
-132.684 2s1/2 0.40575 0.5915

2305.11 1d3/2 0.04775 1.1595

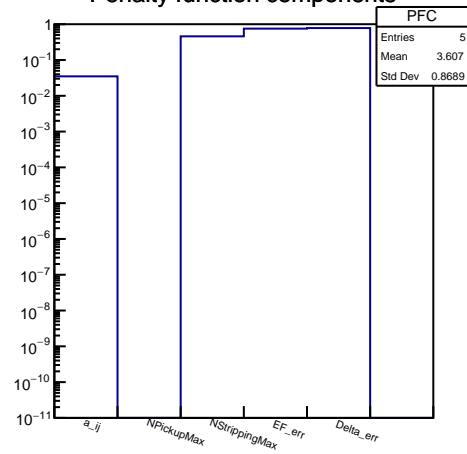
-2088.95 2p1/2 0.948 1.464

563.501 2p3/2 0.4365 1.087

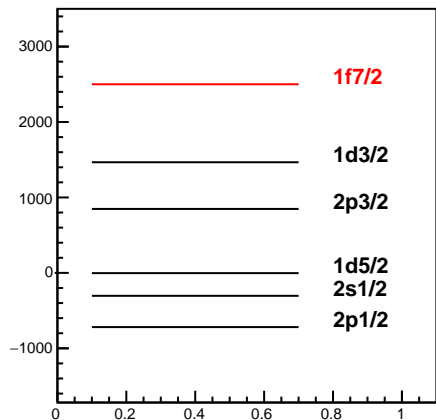
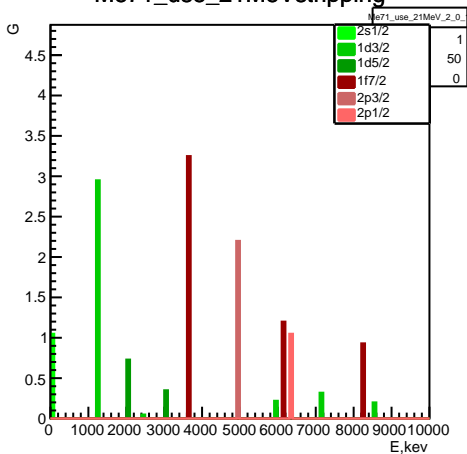
Oh77pickup



Penalty function components



Me71_use_21MeVstripping



Experiment: Oh77 (9) Me71_use_21MeV (13)

neutron transfer

n separation energy A:0, A+1: 0

E_F: 199.732 ± 1059.35 keV

Δ: -2060.63 ± 3222.46 keV

penalty: 0.40522

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

-3.24684 1d5/2 0.824167 1.00833

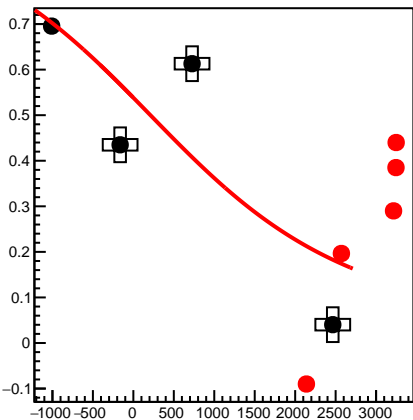
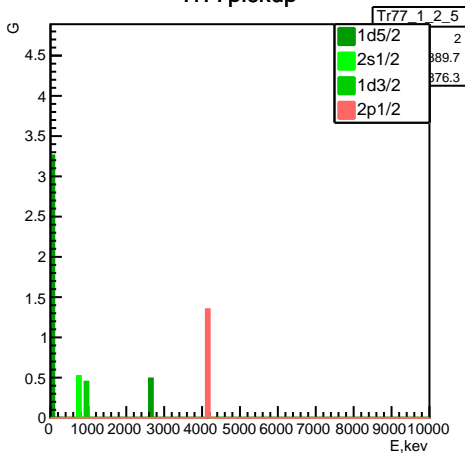
-303.99 2s1/2 0.373 0.796

1466.68 1d3/2 0.16375 1.1975

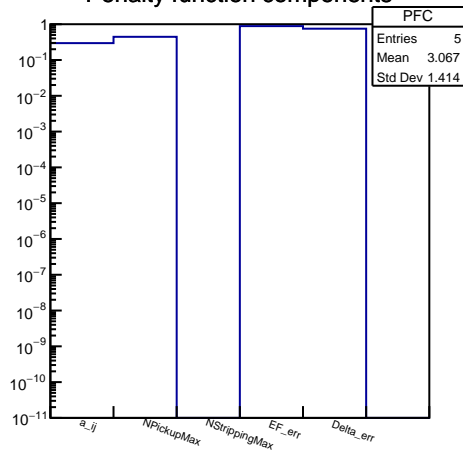
-718.637 2p1/2 0.7825 1.615

847.87 2p3/2 0.41 0.92

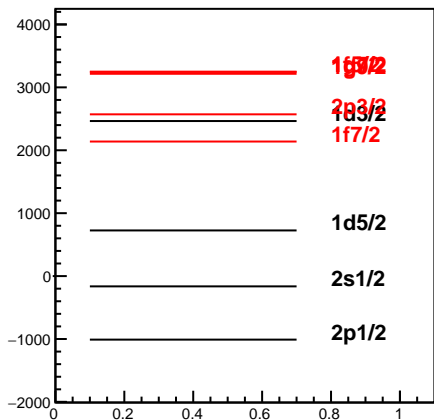
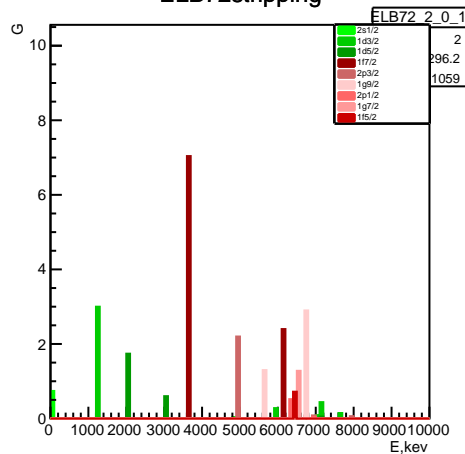
Tr77pickup



Penalty function components



ELB72stripping



Experiment: Tr77 (5) ELB72 (24)

neutron transfer

n separation energy A:0, A+1: 0

 $E_F: 210.989 \pm 1245.78 \text{ keV}$ $\Delta: 2745.86 \pm 3094.86 \text{ keV}$

penalty: 0.474995

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

725.634 1d5/2 0.613 1.024

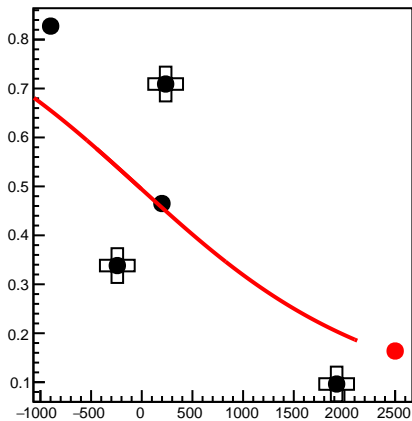
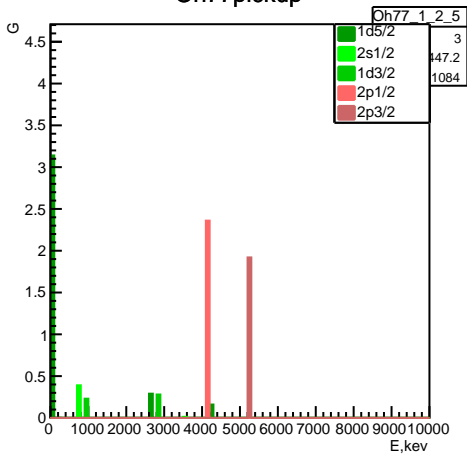
-163.431 2s1/2 0.435 0.65

2464.63 1d3/2 0.04025 1.1445

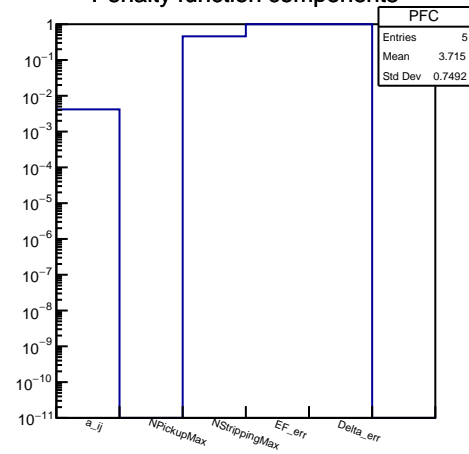
-1009.89 2p1/2 0.6955 0.959

2138.77 1f7/2 -0.09 1.18

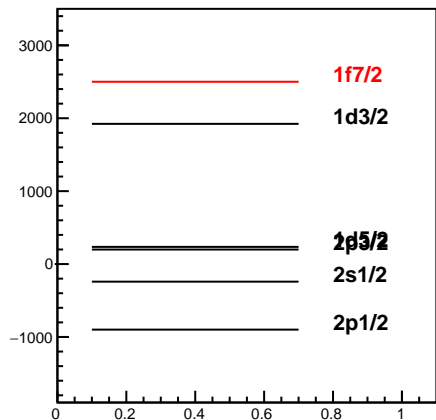
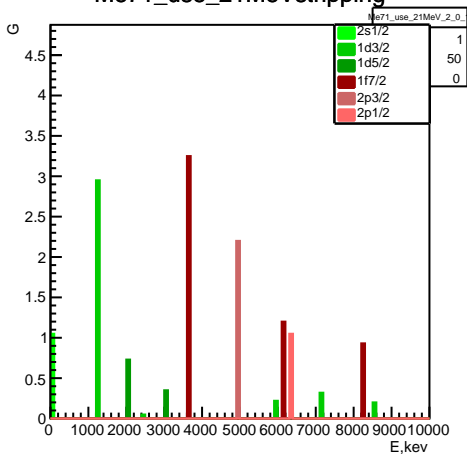
Oh77pickup



Penalty function components



Me71_use_21MeVstripping



Experiment: Oh77 (9) Me71_use_21MeV (13)

neutron transfer

n separation energy A:0, A+1: 0

 $E_F: -31.78 \pm 1407.97$ keV $\Delta: 2658.06 \pm 4128.92$ keV

penalty: 0.492501

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

235.611 1d5/2 0.709167 0.778333

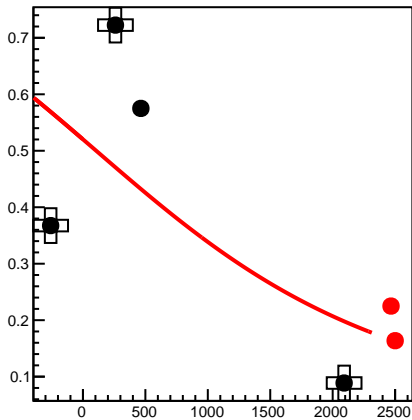
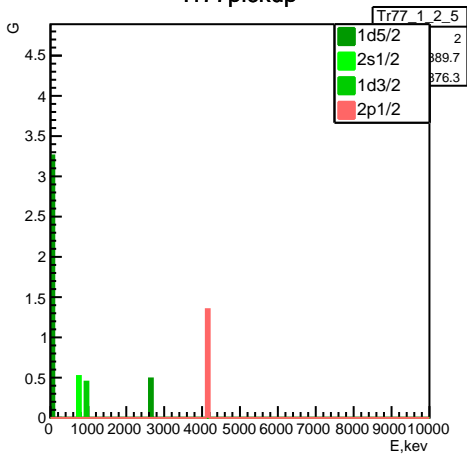
-241.276 2s1/2 0.33825 0.7265

1922.9 1d3/2 0.09625 1.0625

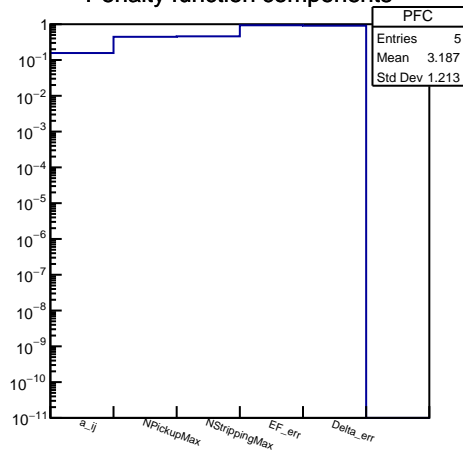
-899.136 2p1/2 0.8275 1.705

199.097 2p3/2 0.465 1.03

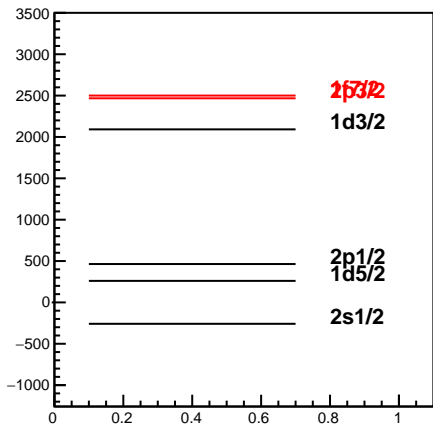
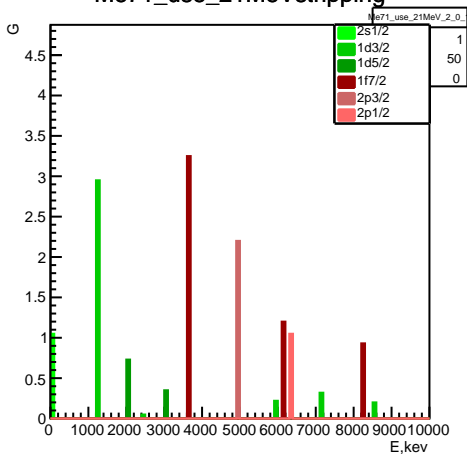
Tr77pickup



Penalty function components



Me71_use_21MeVstripping



Experiment: Tr77 (5) Me71_use_21MeV (13)

neutron transfer

n separation energy A:0, A+1: 0

 $E_F: 106.133 \pm 1314.26 \text{ keV}$ $\Delta: 2619.51 \pm 3753.04 \text{ keV}$

penalty: 0.580366

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

260.26 1d5/2 0.7225 0.805

-258.642 2s1/2 0.3675 0.785

2091.71 1d3/2 0.08875 1.0475

463.927 2p1/2 0.575 1.2

2500.39 1f7/2 0.163687 0.672625