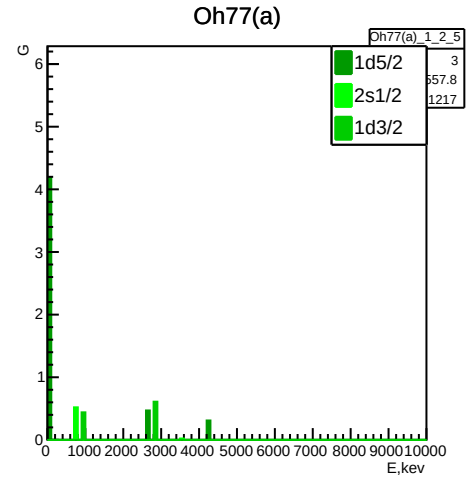
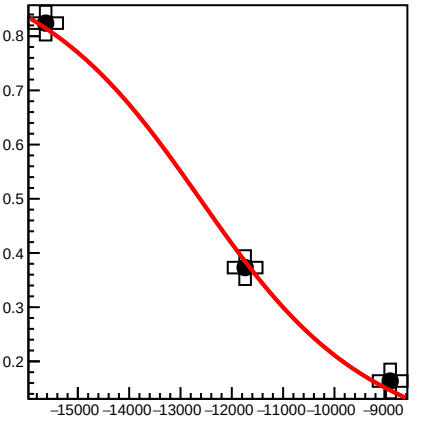
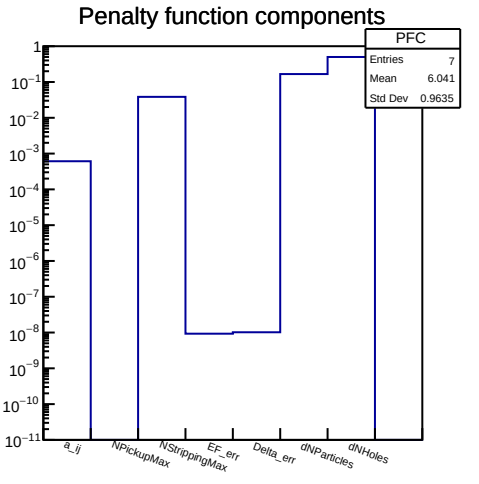
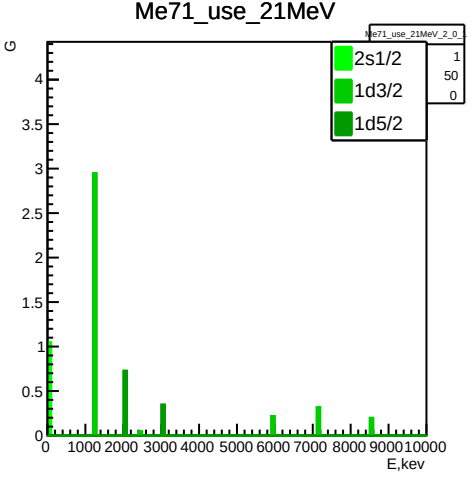
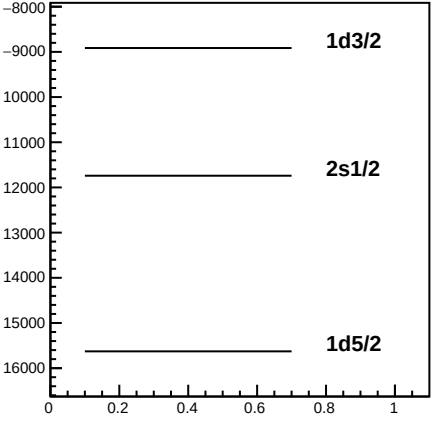










Experiment: Oh77(a) (7) Me71_use_21MeV (8

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

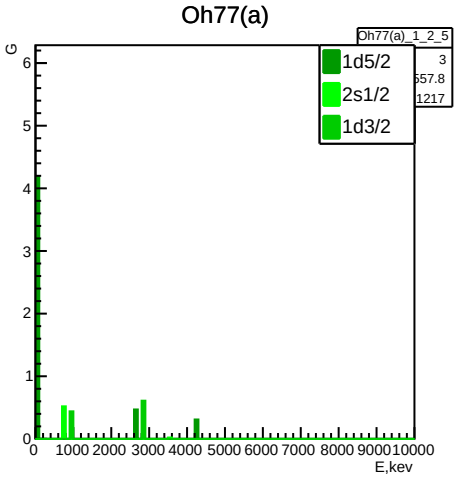
penalty: 0.135719

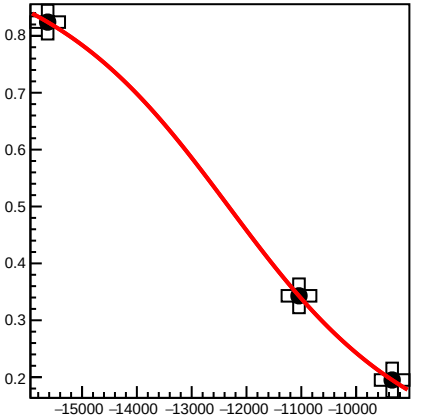
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

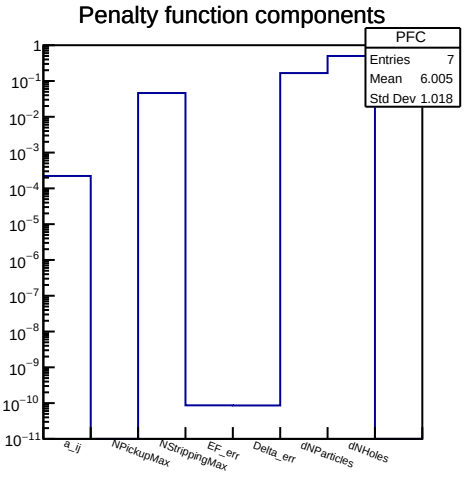
-15627.8 1d5/2 0.824167 1.00833

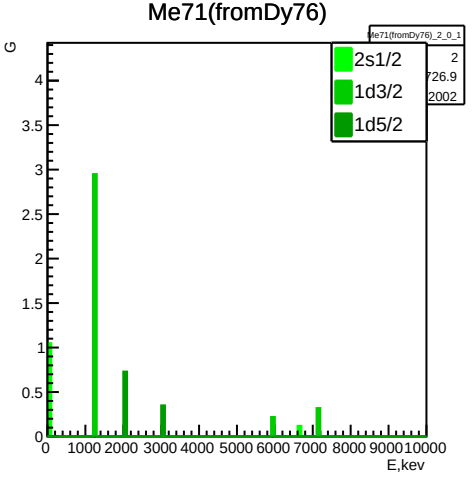
-11740.8 2s1/2 0.373 0.796

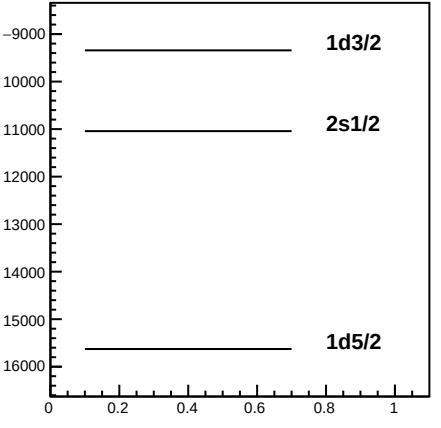
-8914.55 1d3/2 0.16375 1.1975











Experiment: Oh77(a) (7) Me71(fromDy76) (7)

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

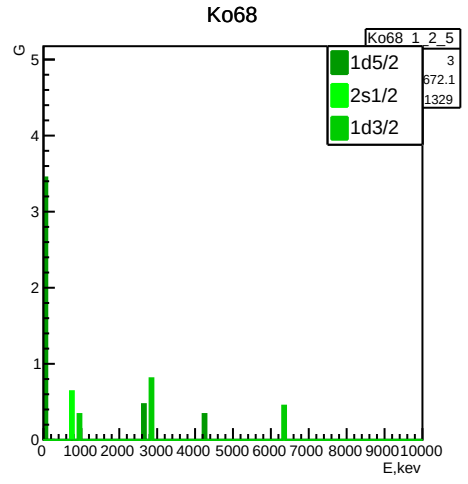
penalty: 0.137124

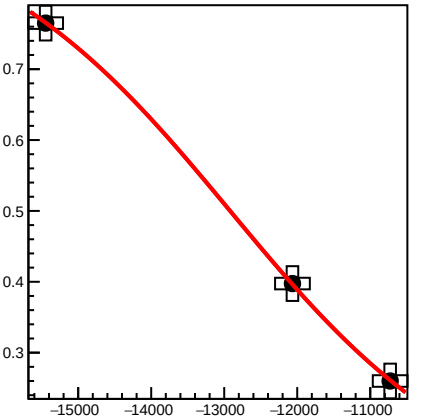
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

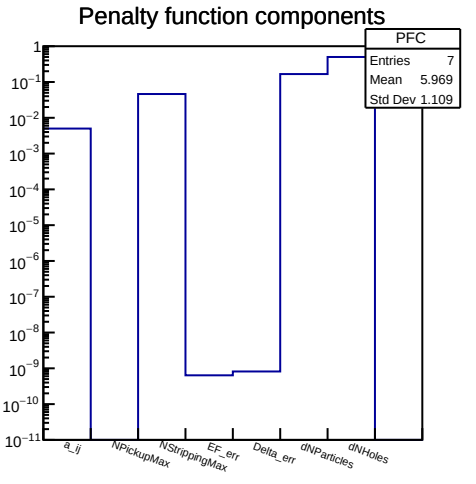
-15627.8 1d5/2 0.824167 1.00833

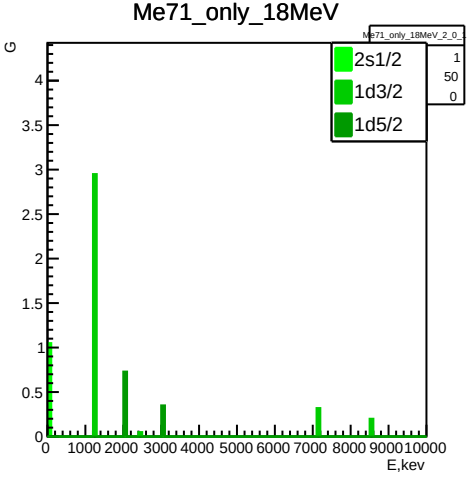
-11042.4 2s1/2 0.343 0.856

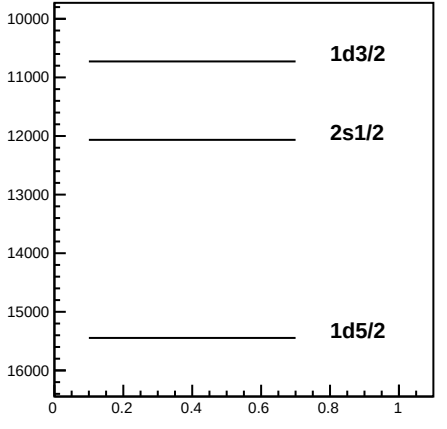
-9342.58 1d3/2 0.195 1.135











Experiment: Ko68 (7) Me71_only_18MeV (7)

neutron transfer

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

E_F: -12919.5 ± 10.7704 keV

Δ: 4030.79 ± 24.8337 keV

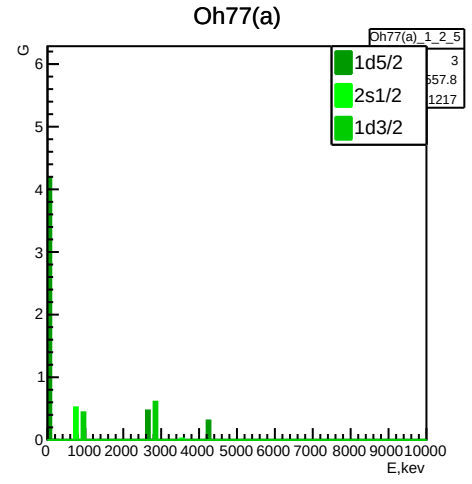
penalty: 0.138042

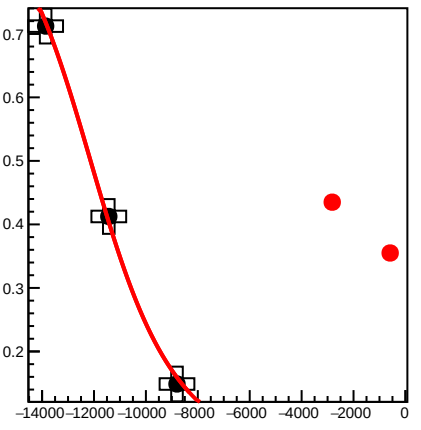
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

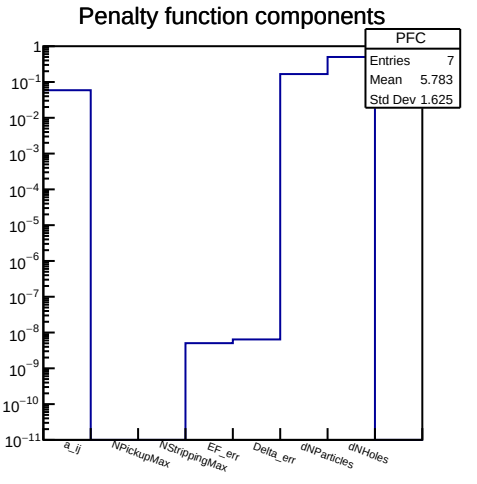
-15445.7 1d5/2 0.765 0.89

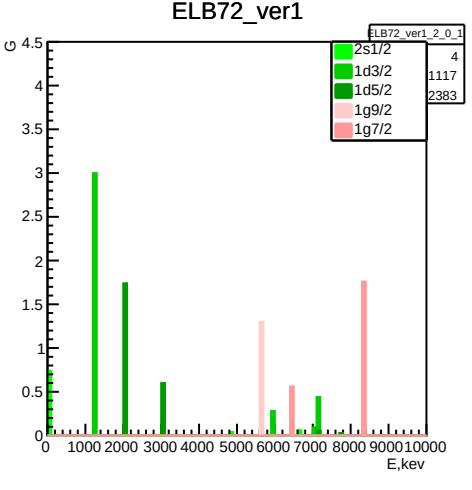
-12065.4 2s1/2 0.3975 0.845

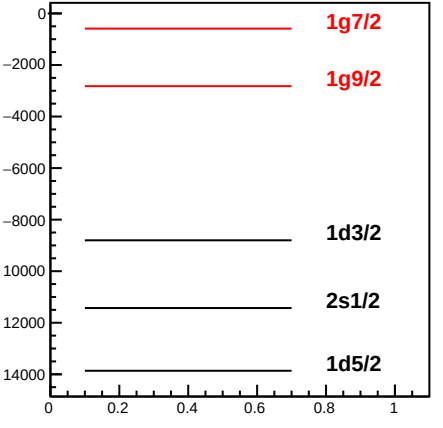
-10727.3 1d3/2 0.26 1.28











Experiment: Oh77(a) (7) ELB72_ver1 (16)

neutron transfer

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

E_F: -12132.1 ± 85.2499 keV

Δ: 3572.85 ± 195.042 keV

penalty: 0.139541

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

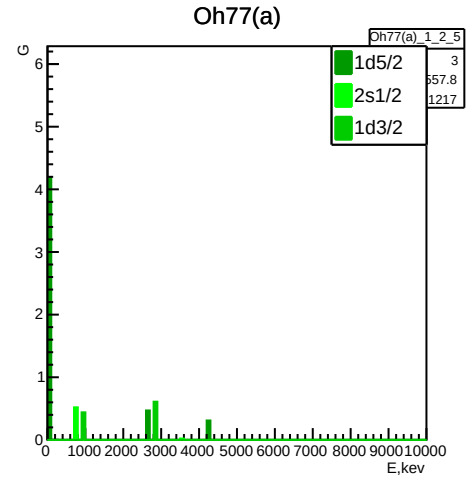
-13862.8 1d5/2 0.712167 1.23233

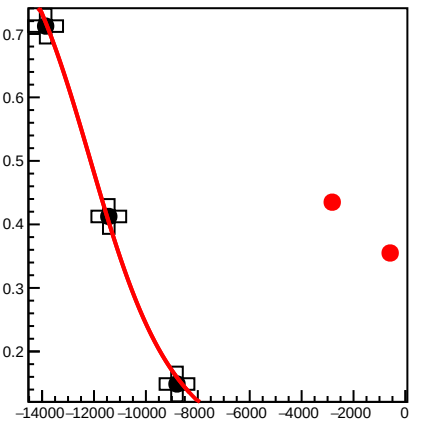
-11429.7 2s1/2 0.4125 0.717

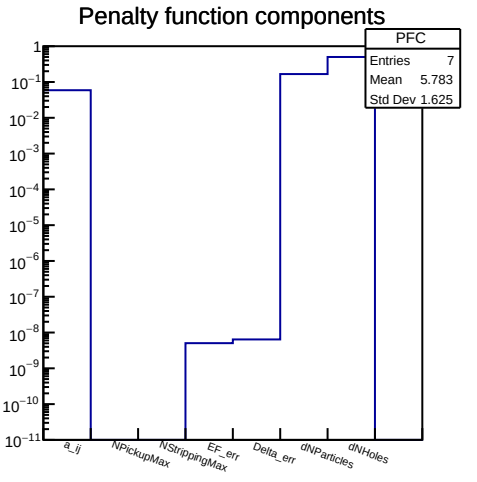
-8801.97 1d3/2 0.14875 1.2275

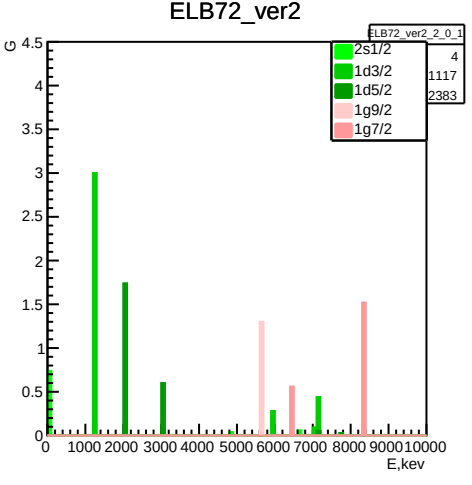
-2820.87 1g9/2 0.435 5.58294e-322

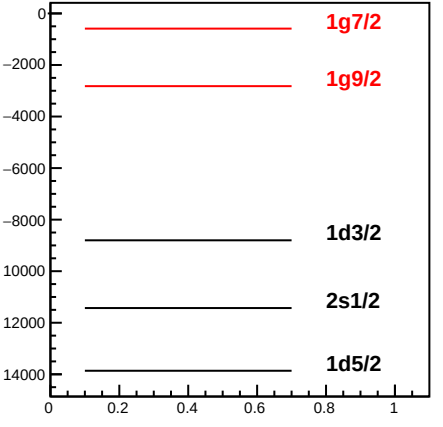
-588.767 1g7/2 0.355 6.92655e-310











Experiment: Oh77(a) (7) ELB72_ver2 (16)

neutron transfer

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

E_F: -12132.1 ± 85.2499 keV

Δ: 3572.85 ± 195.042 keV

penalty: 0.139541

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

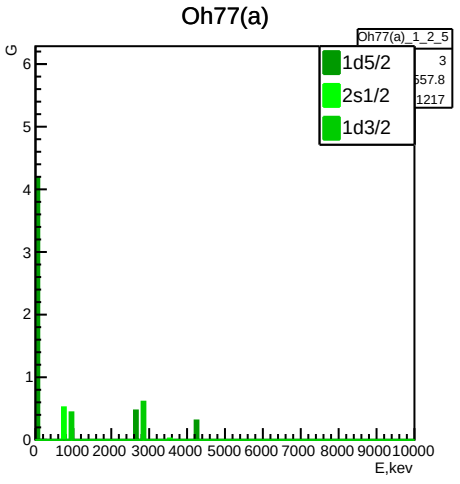
-13862.8 1d5/2 0.712167 1.23233

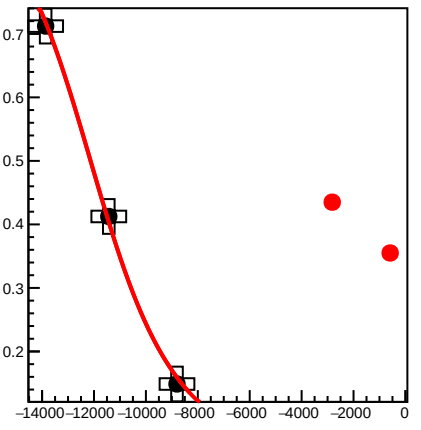
-11429.7 2s1/2 0.4125 0.717

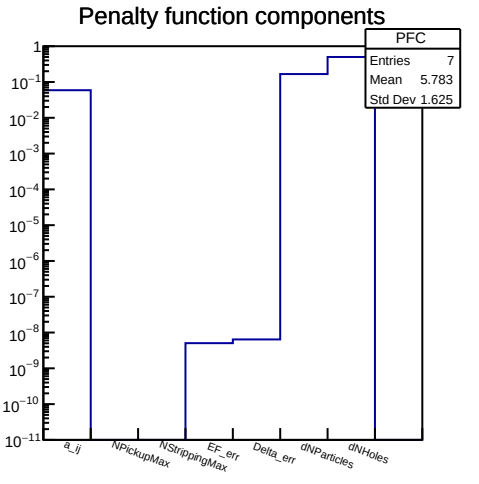
-8801.97 1d3/2 0.14875 1.2275

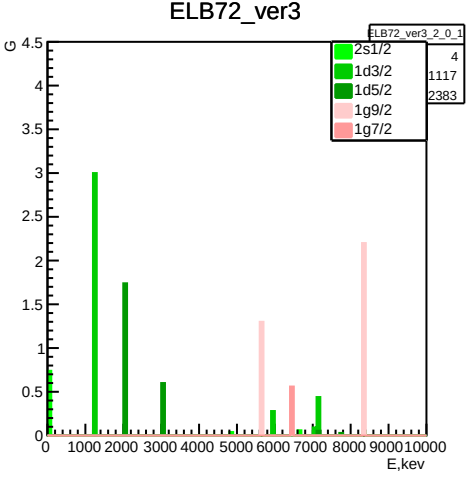
-2820.87 1g9/2 0.435 5.58294e-322

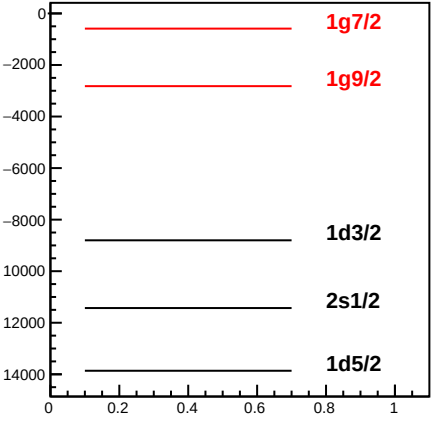
-588.767 1g7/2 0.355 6.92655e-310











Experiment: Oh77(a) (7) ELB72_ver3 (16)

neutron transfer

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

E_F: -12132.1 ± 85.2499 keV

Δ: 3572.85 ± 195.042 keV

penalty: 0.139541

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

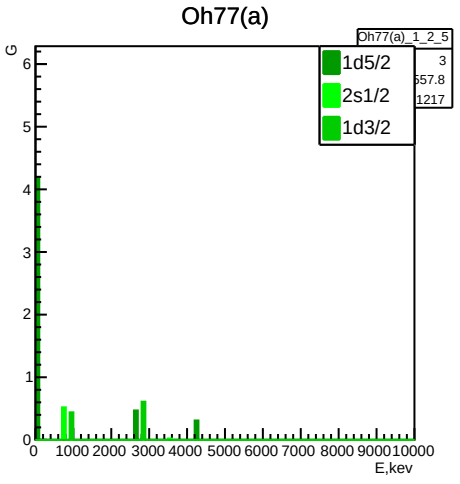
-13862.8 1d5/2 0.712167 1.23233

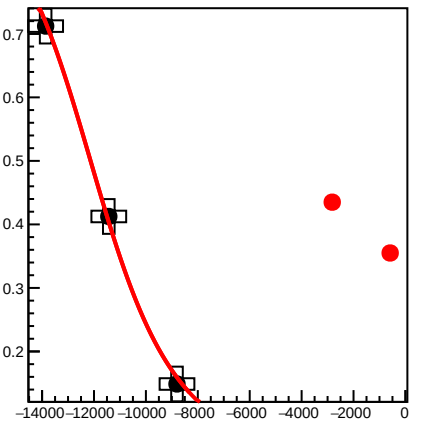
-11429.7 2s1/2 0.4125 0.717

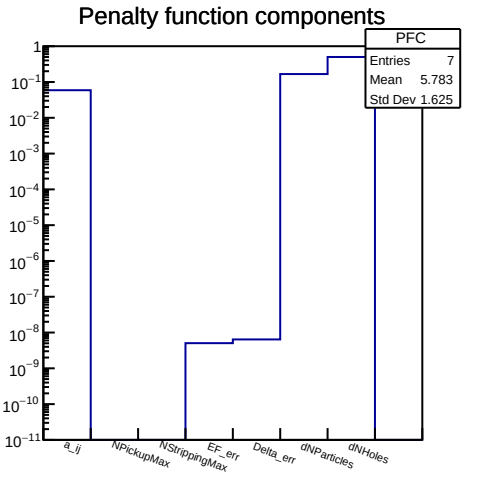
-8801.97 1d3/2 0.14875 1.2275

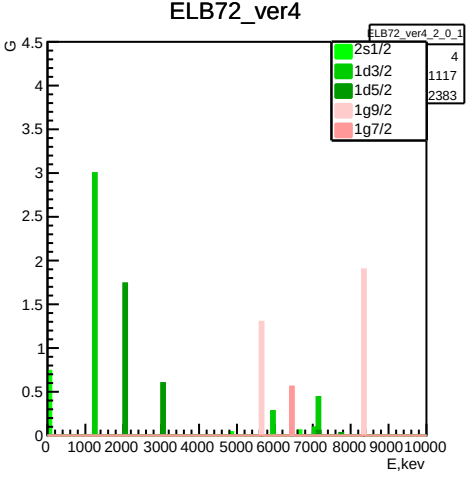
-2820.87 1g9/2 0.435 5.26354e-315

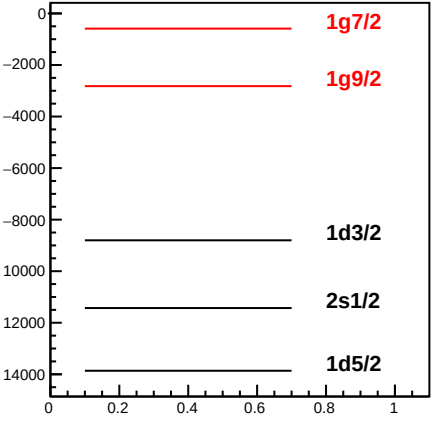
-588.767 1g7/2 0.355 2.37152e-322











Experiment: Oh77(a) (7) ELB72_ver4 (16)

neutron transfer

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

E_F: -12132.1 ± 85.2499 keV

Δ: 3572.85 ± 195.042 keV

penalty: 0.139541

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

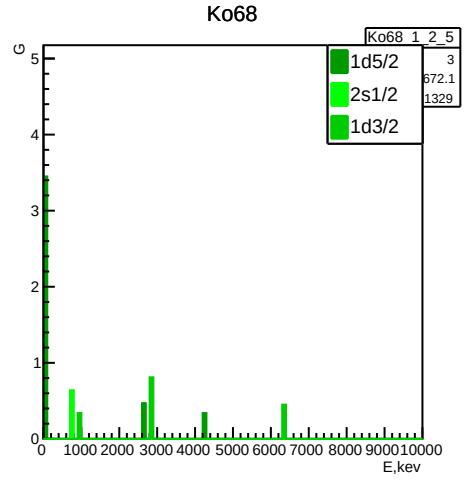
-13862.8 1d5/2 0.712167 1.23233

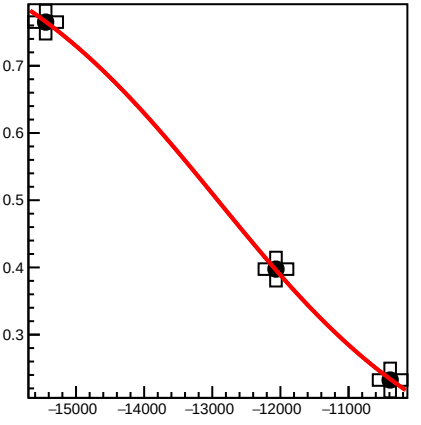
-11429.7 2s1/2 0.4125 0.717

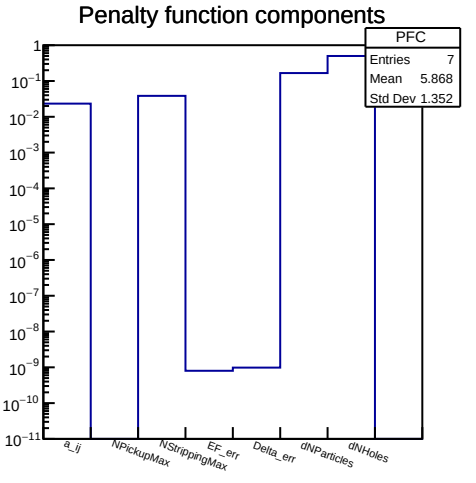
-8801.97 1d3/2 0.14875 1.2275

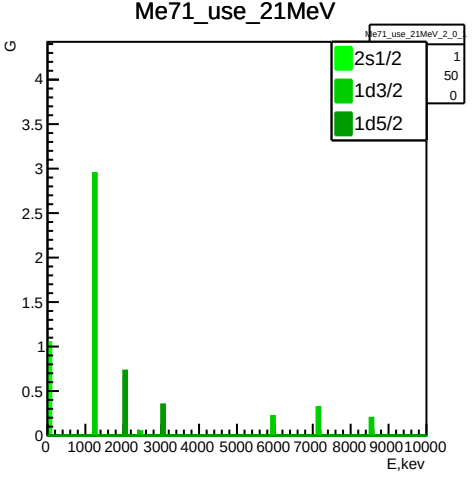
-2820.87 1g9/2 0.435 1.2732e-313

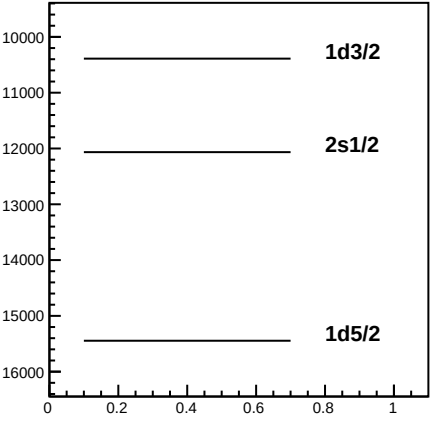
-588.767 1g7/2 0.355 2.37152e-322











Experiment: Ko68 (7) Me71_use_21MeV (8)

neutron transfer

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

E_F: -12920.5 ± 13.5182 keV

Δ: -4025.94 ± 29.8511 keV

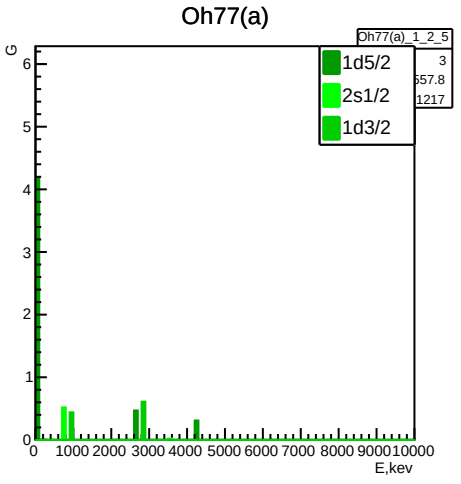
penalty: 0.140089

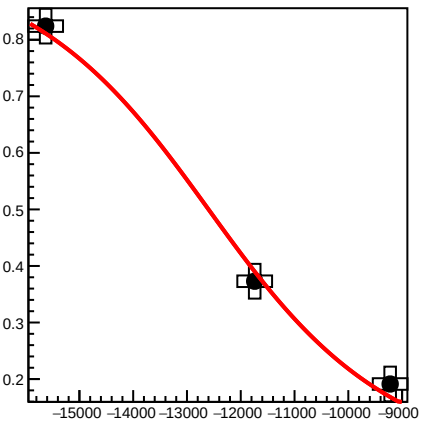
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

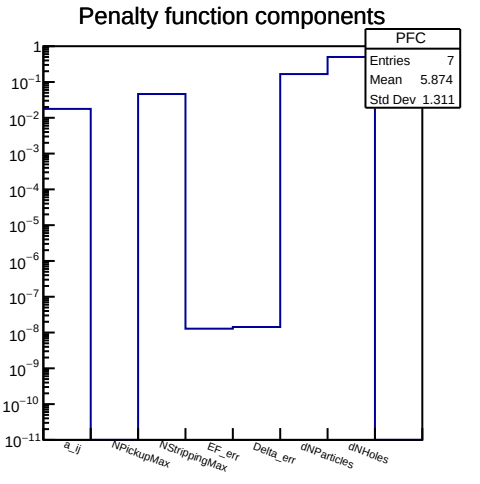
-15445.7 1d5/2 0.765 0.89

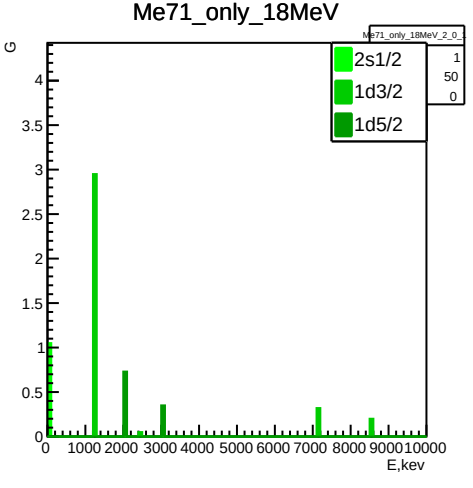
-12065.4 2s1/2 0.3975 0.845

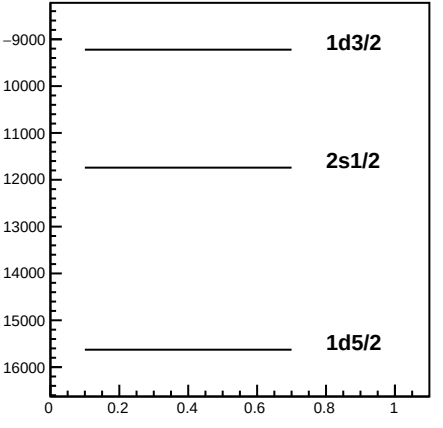
-10389.4 1d3/2 0.2325 1.335











Experiment: Oh77(a) (7) Me71_only_18MeV (

neutron transfer

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

E_F: -12599.2 ± 216.444 keV

Δ: 3809.02 ± 434.366 keV

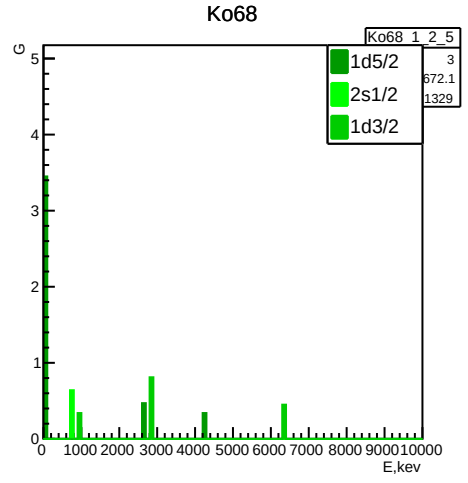
penalty: 0.140489

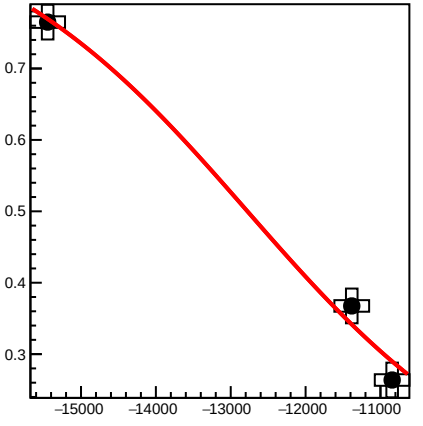
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

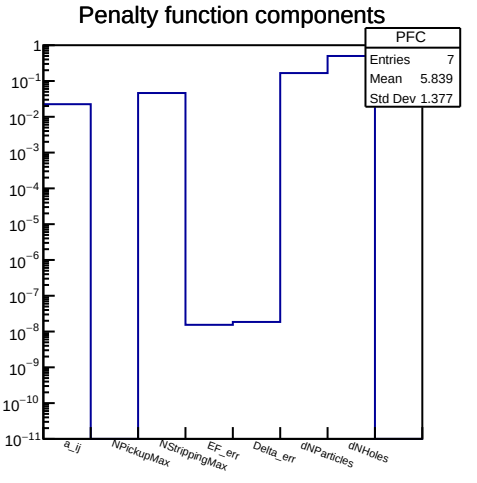
-15627.8 1d5/2 0.824167 1.00833

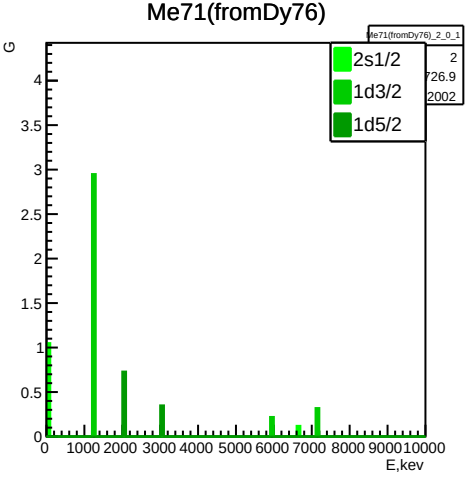
-11740.8 2s1/2 0.373 0.796

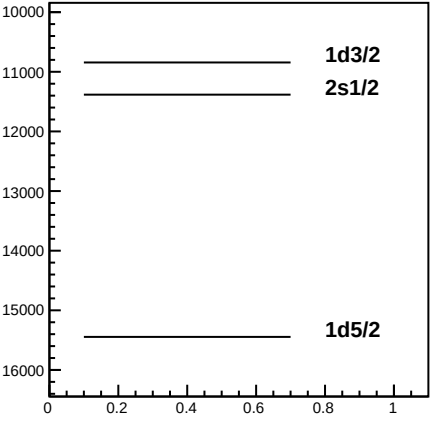
-9222.1 1d3/2 0.19125 1.1425











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

neutron transfer

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

E_F: -12776.7 ± 260.068 keV

Δ: 4172.4 ± 563.501 keV

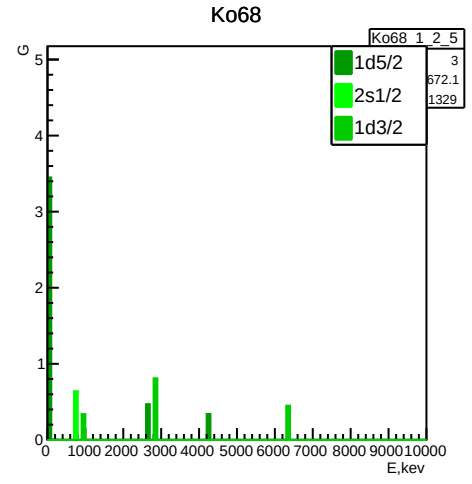
penalty: 0.141408

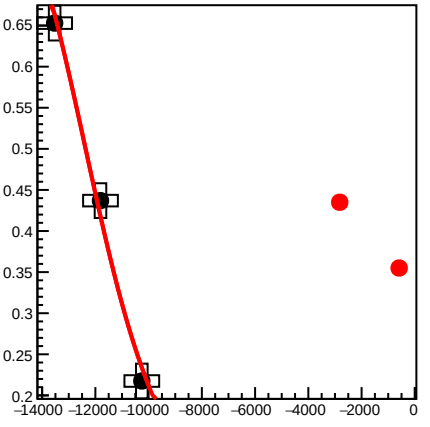
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

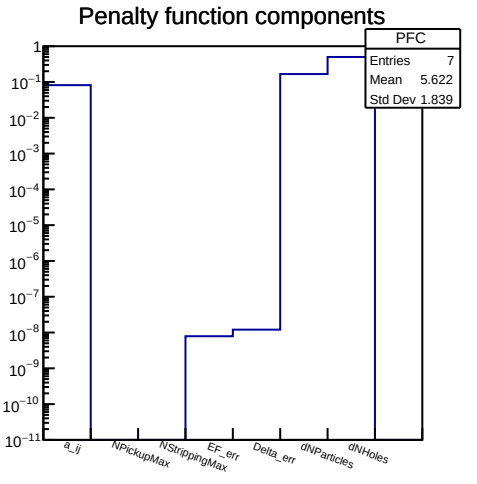
-15445.7 1d5/2 0.765 0.89

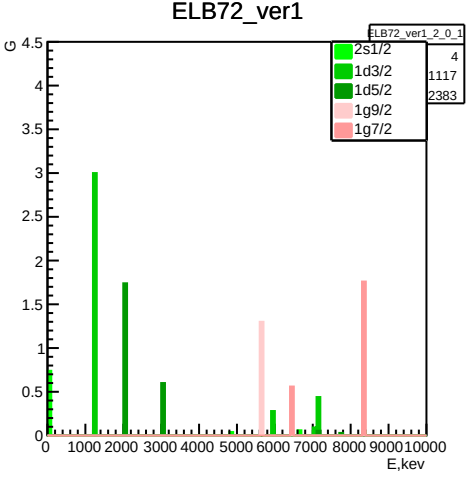
-11383.3 2s1/2 0.3675 0.905

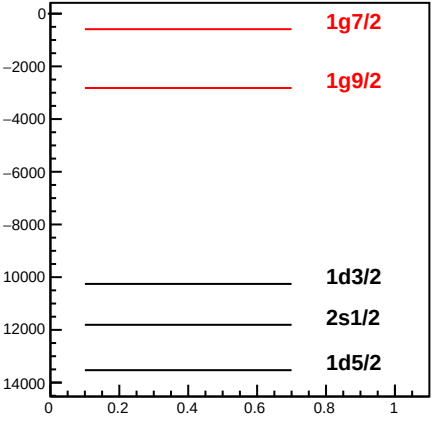
-10843.6 1d3/2 0.26375 1.2725











Experiment: Ko68 (7) ELB72_ver1 (16)

neutron transfer

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

E_F: -12367.4 ± 133.179 keV

Δ: 3360.08 ± 366.161 keV

penalty: 0.14391

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

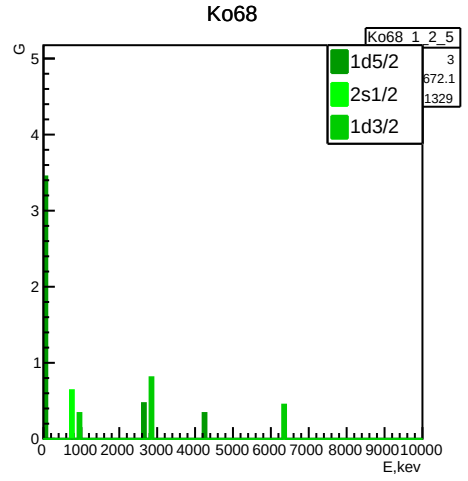
-13529.8 1d5/2 0.653 1.114

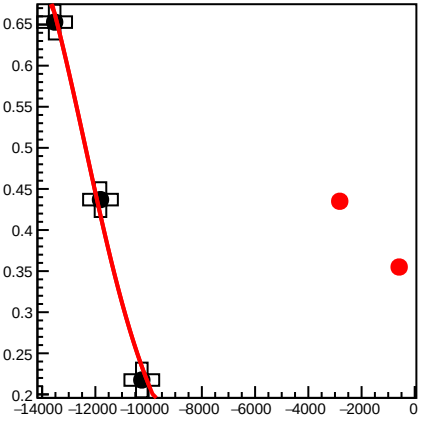
-11807.8 2s1/2 0.437 0.766

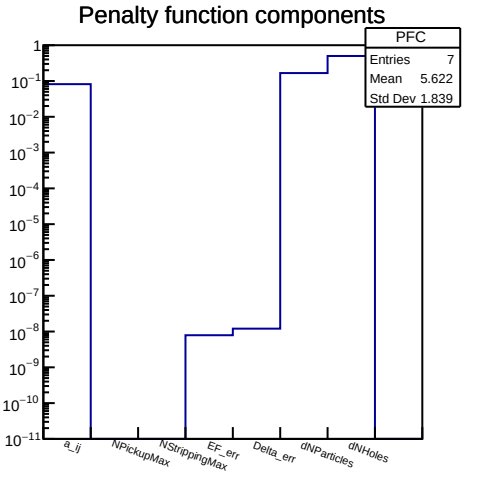
-10255.8 1d3/2 0.2175 1.365

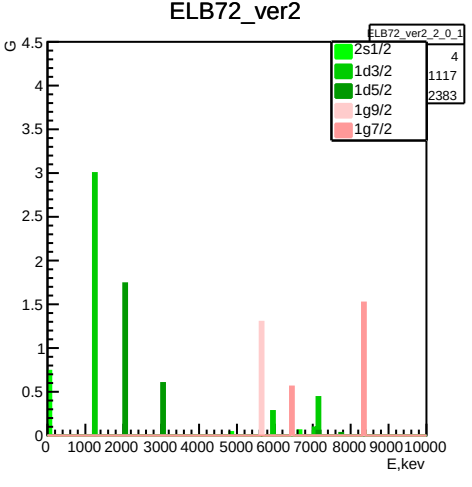
-2820.87 1g9/2 0.435 8.74496e-322

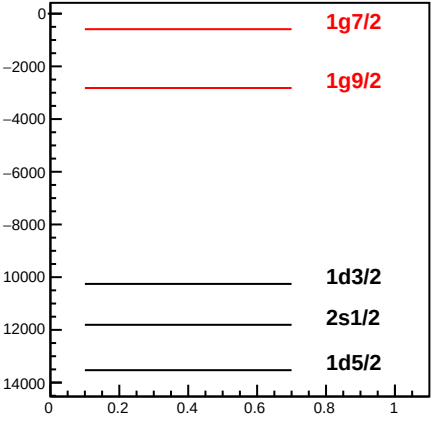
-588.767 1g7/2 0.355 0.5











Experiment: Ko68 (7) ELB72_ver2 (16)

neutron transfer

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

E_F: -12367.4 ± 133.179 keV

Δ: 3360.08 ± 366.161 keV

penalty: 0.14391

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

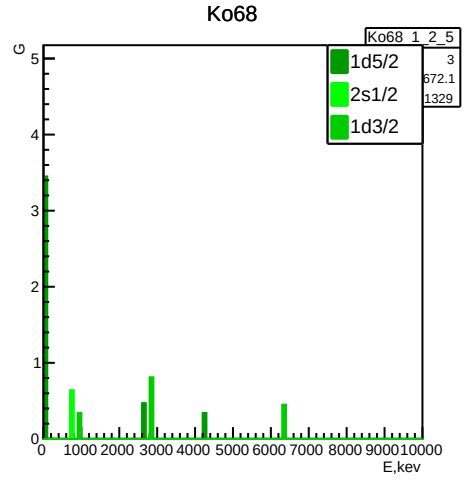
-13529.8 1d5/2 0.653 1.114

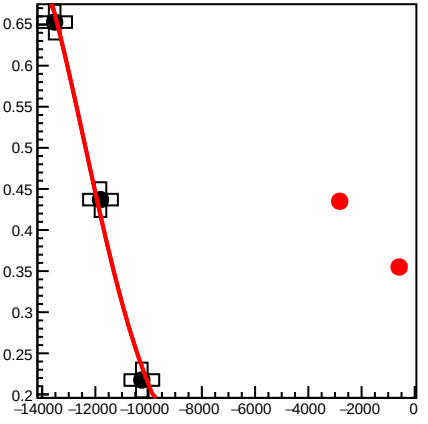
-11807.8 2s1/2 0.437 0.766

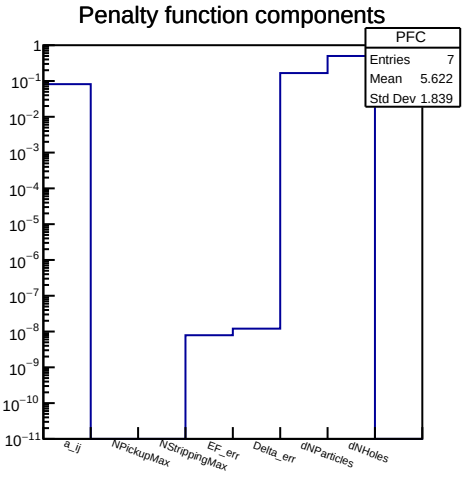
-10255.8 1d3/2 0.2175 1.365

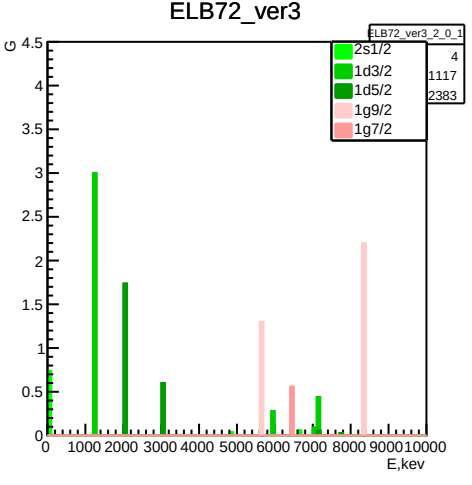
-2820.87 1g9/2 0.435 3.21143e-322

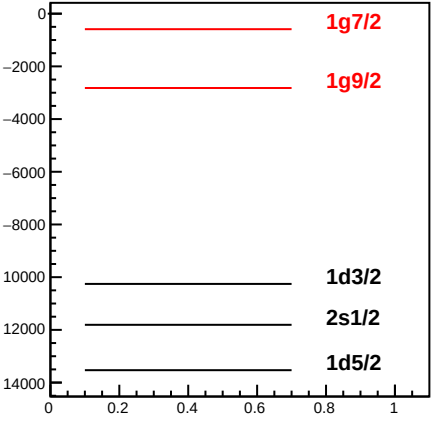
-588.767 1g7/2 0.355 0.0816667











Experiment: Ko68 (7) ELB72_ver3 (16)

neutron transfer

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

E_F: -12367.4 ± 133.179 keV

Δ: 3360.08 ± 366.161 keV

penalty: 0.14391

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

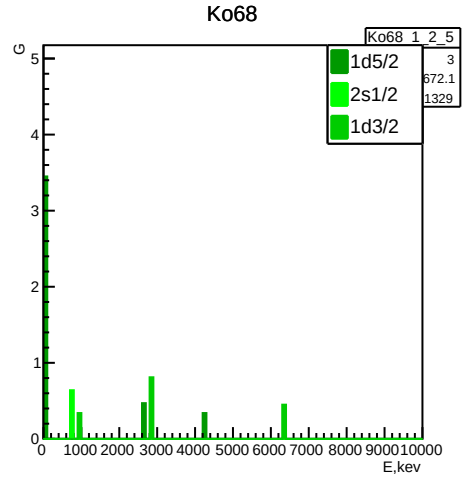
-13529.8 1d5/2 0.653 1.114

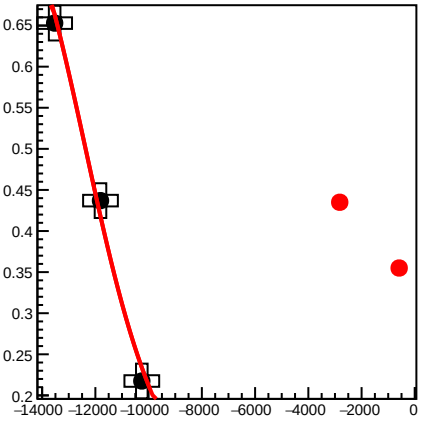
-11807.8 2s1/2 0.437 0.766

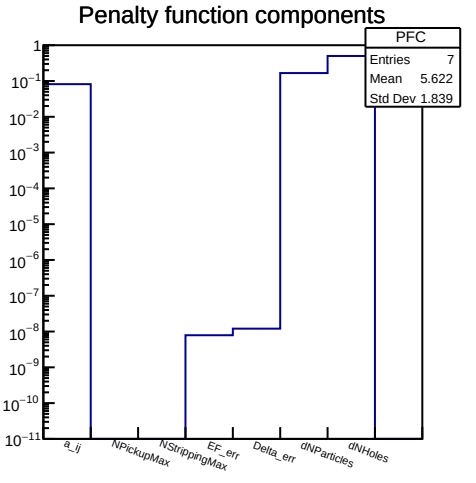
-10255.8 1d3/2 0.2175 1.365

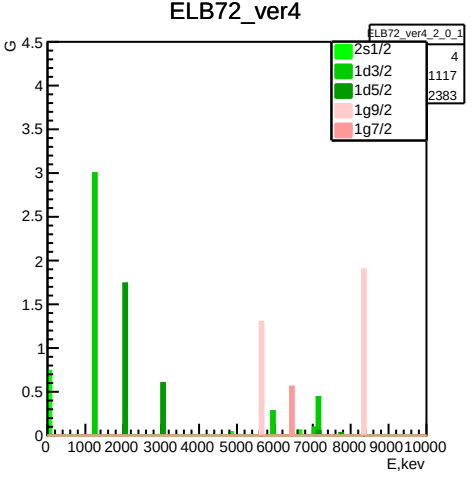
-2820.87 1g9/2 0.435 5.58294e-322

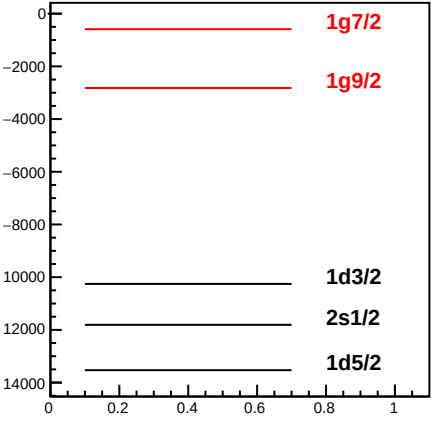
-588.767 1g7/2 0.355 6.92655e-310











Experiment: Ko68 (7) ELB72_ver4 (16)

neutron transfer

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

E_F: -12367.4 ± 133.179 keV

Δ: 3360.08 ± 366.161 keV

penalty: 0.14391

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

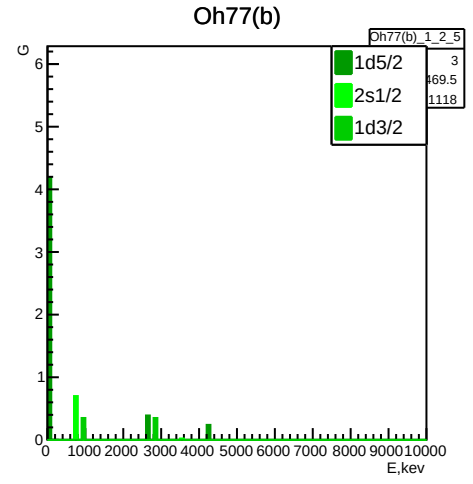
-13529.8 1d5/2 0.653 1.114

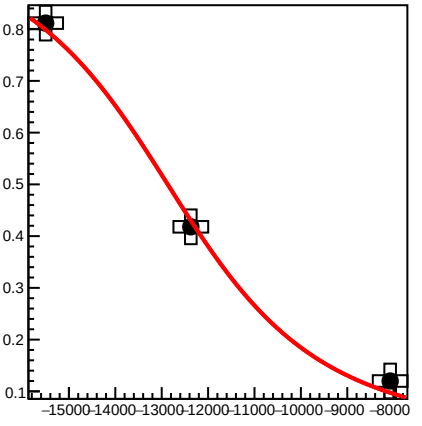
-11807.8 2s1/2 0.437 0.766

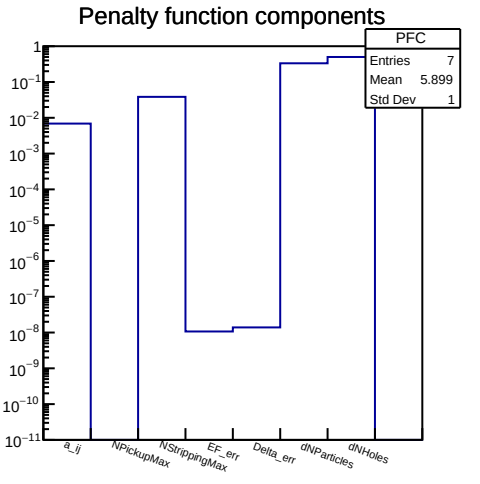
-10255.8 1d3/2 0.2175 1.365

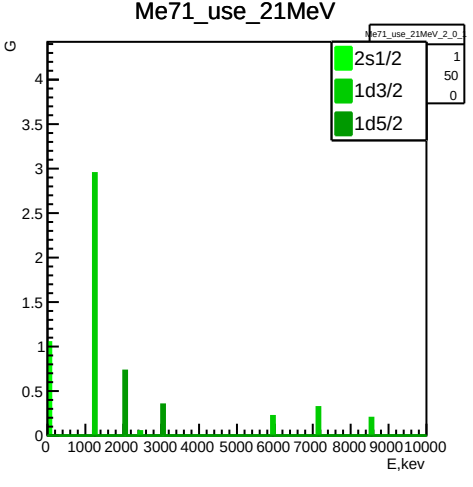
-2820.87 1g9/2 0.435 1.2732e-313

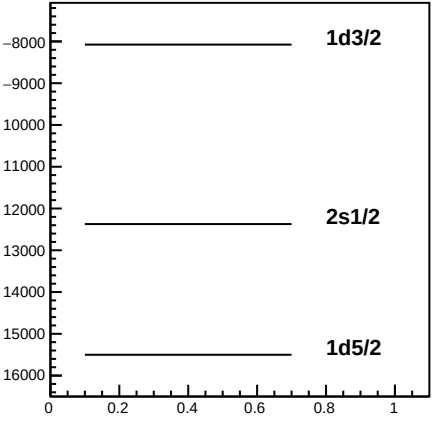
-588.767 1g7/2 0.355 2.37152e-322











Experiment: Oh77(b) (7) Me71_use_21MeV (

neutron transfer

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

E_F: -12870.6 ± 180.729 keV

Δ: 3531.33 ± 422.852 keV

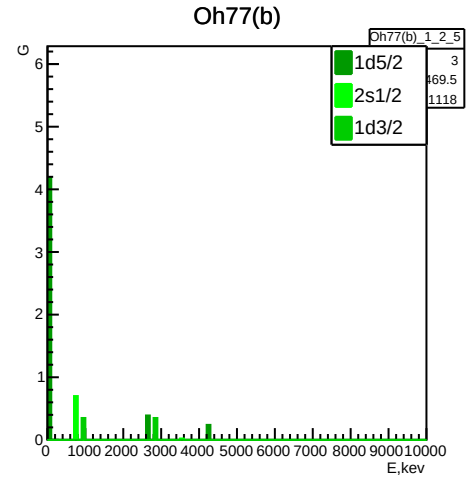
penalty: 0.168978

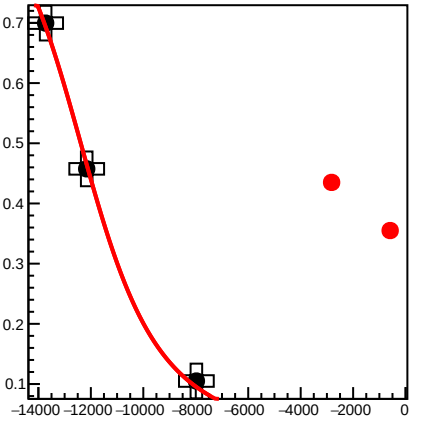
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

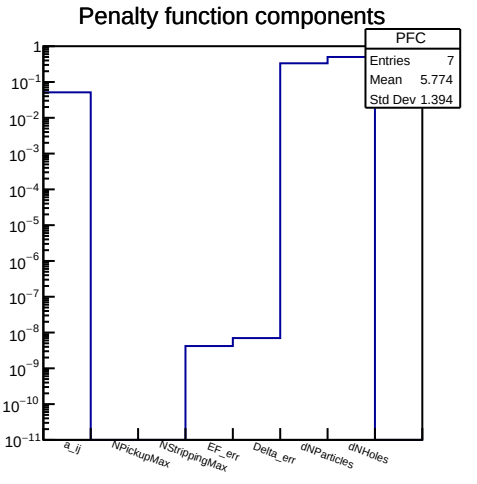
-15501.6 1d5/2 0.811667 0.983333

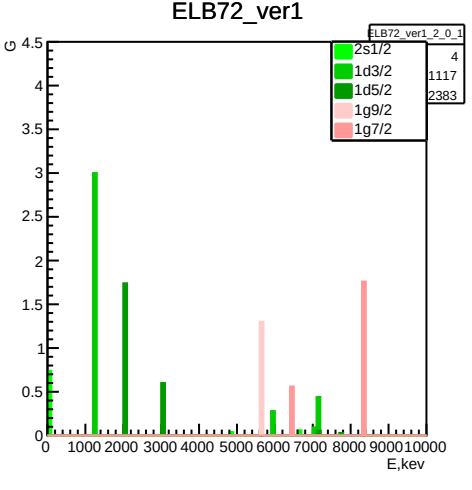
-12372.5 2s1/2 0.418 0.886

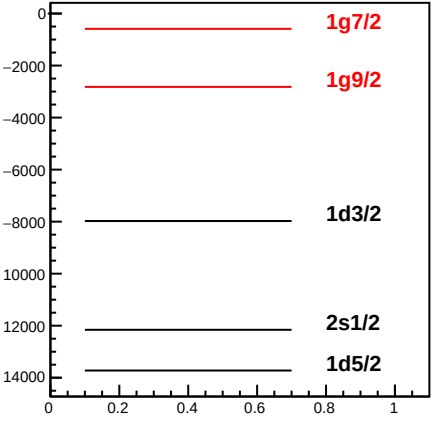
-8075.85 1d3/2 0.12 1.11











Experiment: Oh77(b) (7) ELB72_ver1 (16)

neutron transfer

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

E_F: -12384.5 ± 70.8323 keV

Δ: -3193.49 ± 212.904 keV

penalty: 0.17015

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

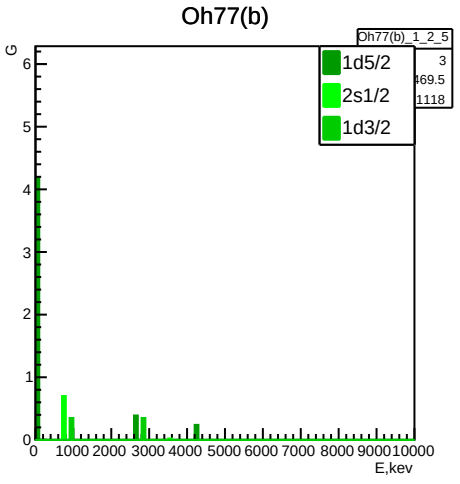
-13723.4 1d5/2 0.699667 1.20733

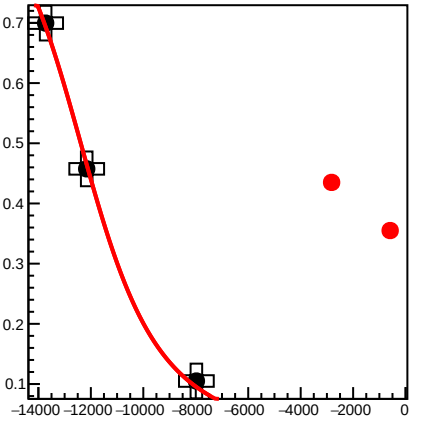
-12157.9 2s1/2 0.4575 0.807

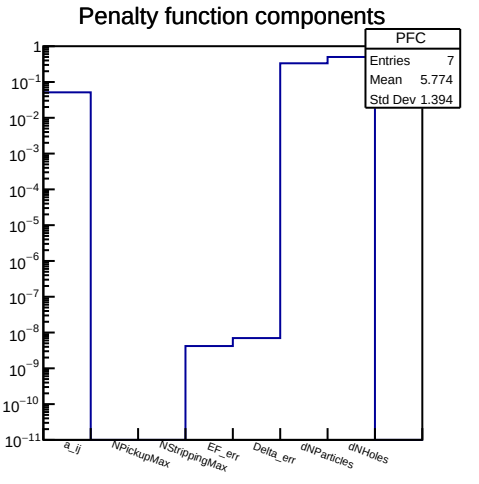
-7976.7 1d3/2 0.105 1.14

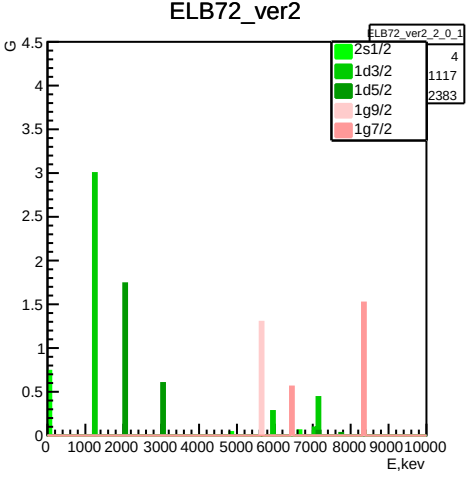
-2820.87 1g9/2 0.435 1.2732e-313

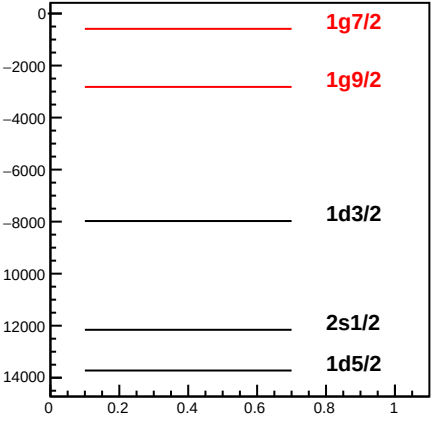
-588.767 1g7/2 0.355 2.37152e-322











Experiment: Oh77(b) (7) ELB72_ver2 (16)

neutron transfer

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

E_F: -12384.5 ± 70.8323 keV

Δ: -3193.49 ± 212.904 keV

penalty: 0.17015

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

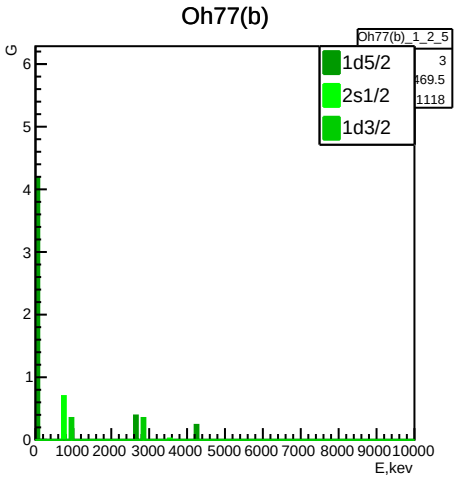
-13723.4 1d5/2 0.699667 1.20733

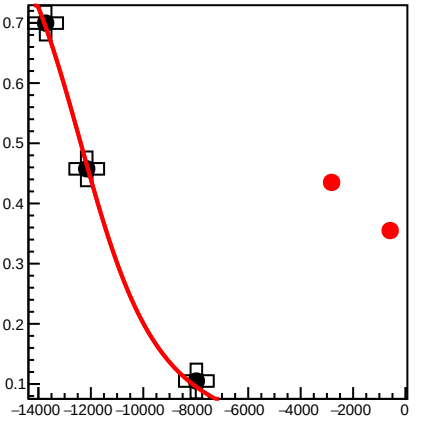
-12157.9 2s1/2 0.4575 0.807

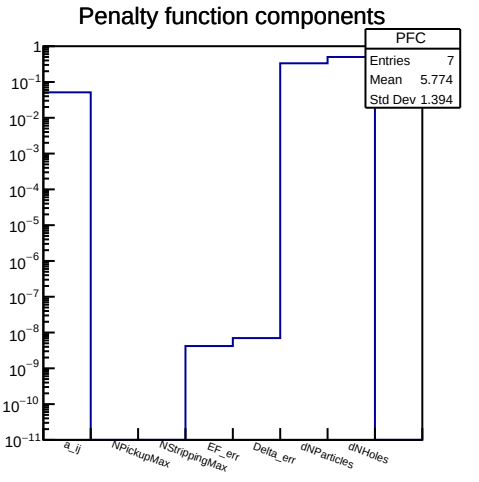
-7976.7 1d3/2 0.105 1.14

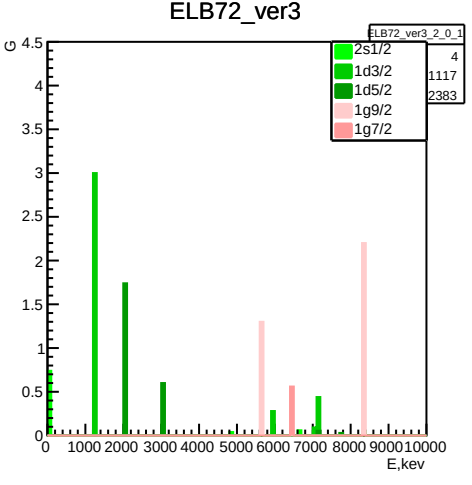
-2820.87 1g9/2 0.435 1.2732e-313

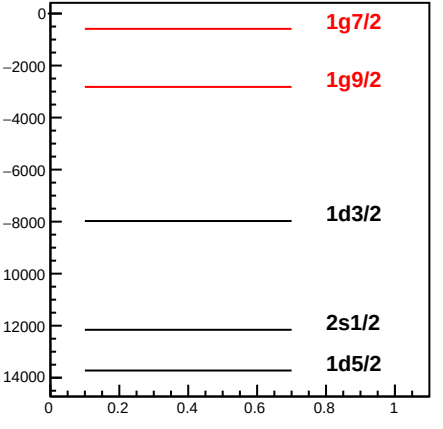
-588.767 1g7/2 0.355 2.37152e-322











Experiment: Oh77(b) (7) ELB72_ver3 (16)

neutron transfer

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

E_F: -12384.5 ± 70.8323 keV

Δ: -3193.49 ± 212.904 keV

penalty: 0.17015

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

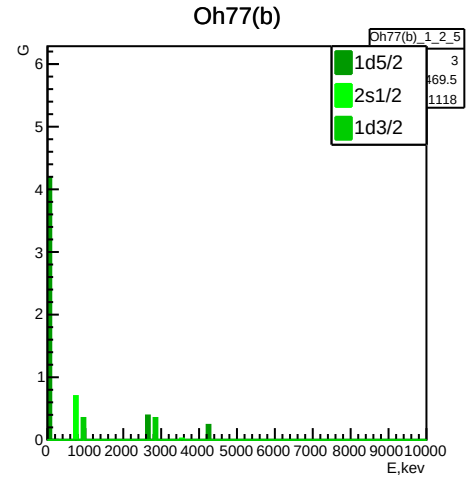
-13723.4 1d5/2 0.699667 1.20733

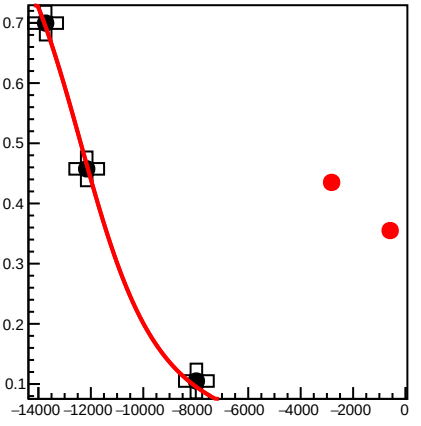
-12157.9 2s1/2 0.4575 0.807

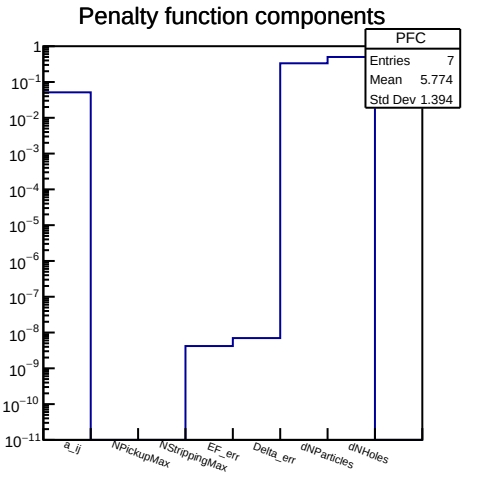
-7976.7 1d3/2 0.105 1.14

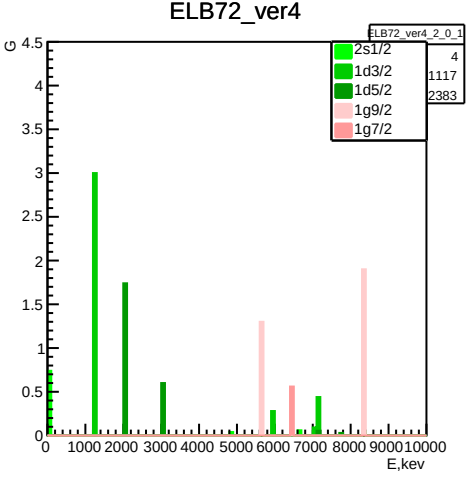
-2820.87 1g9/2 0.435 4.68096e-310

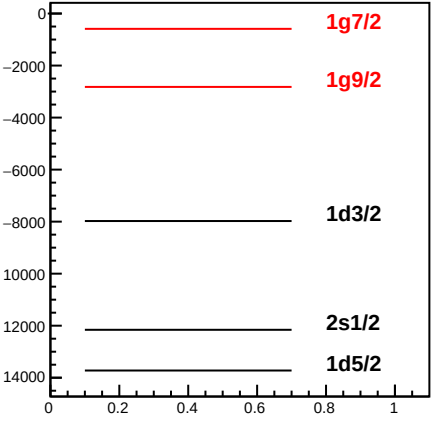
-588.767 1g7/2 0.355 2.37152e-322











Experiment: Oh77(b) (7) ELB72_ver4 (16)

neutron transfer

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

E_F: -12384.5 ± 70.8323 keV

Δ: -3193.49 ± 212.904 keV

penalty: 0.17015

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

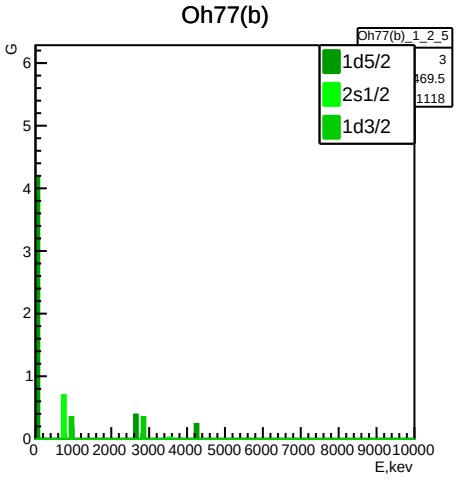
-13723.4 1d5/2 0.699667 1.20733

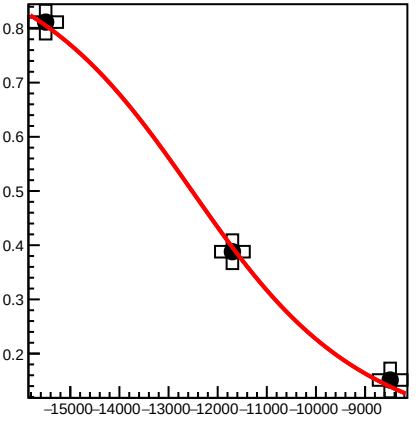
-12157.9 2s1/2 0.4575 0.807

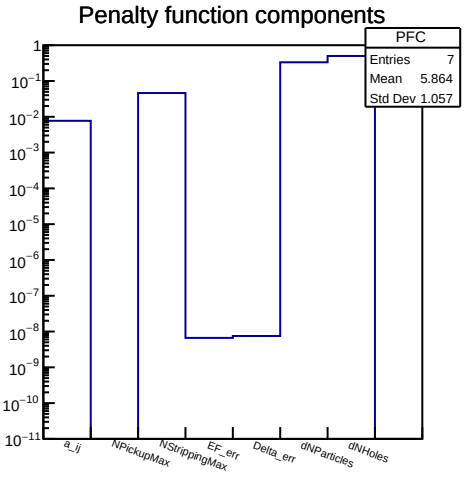
-7976.7 1d3/2 0.105 1.14

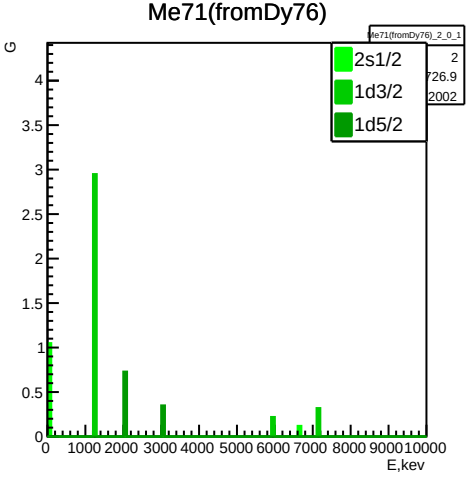
-2820.87 1g9/2 0.435 8.74496e-322

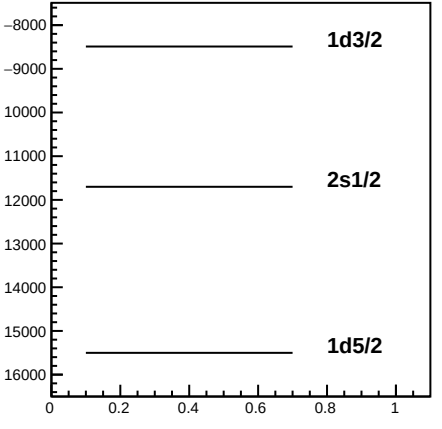
-588.767 1g7/2 0.355 0.5











Experiment: Oh77(b) (7) Me71(fromDy76) (7)

neutron transfer

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

E_F: -12521.4 ± 112.154 keV

Δ: 3864.17 ± 228.227 keV

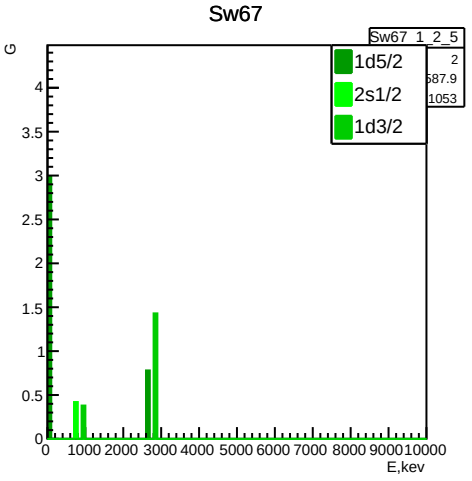
penalty: 0.170617

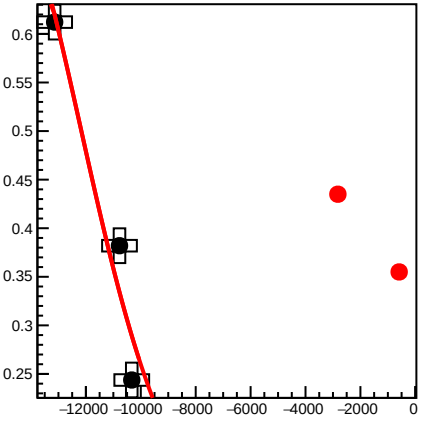
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

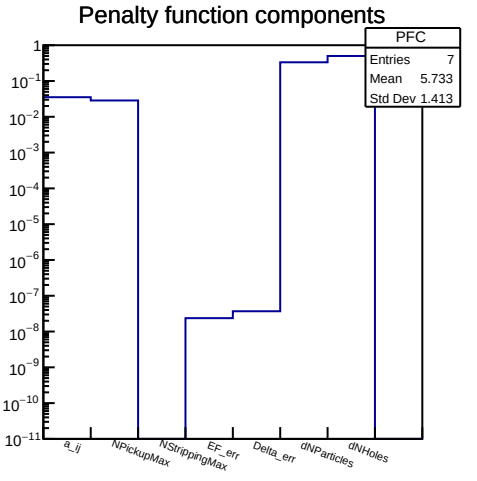
-15501.6 1d5/2 0.811667 0.983333

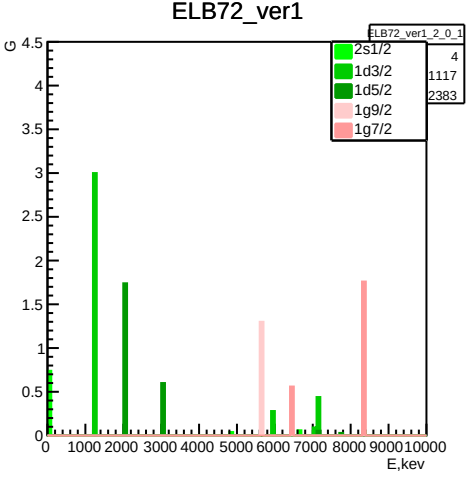
-11700.4 2s1/2 0.388 0.946

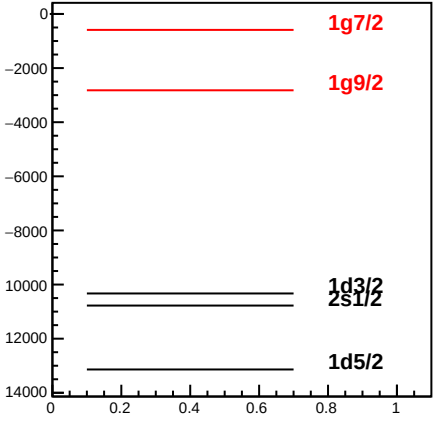
-8489.6 1d3/2 0.15125 1.0475











Experiment: Sw67 (5) ELB72_ver1 (16)

neutron transfer

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

E_F: -12164.6 ± 399.272 keV

Δ: 3950.26 ± 1121.82 keV

penalty: 0.172535

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

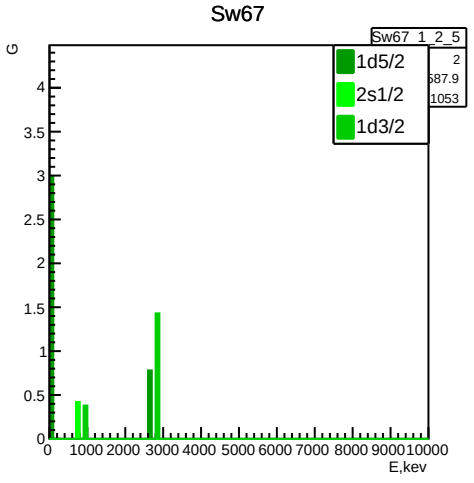
-13138.2 1d5/2 0.612167 1.03233

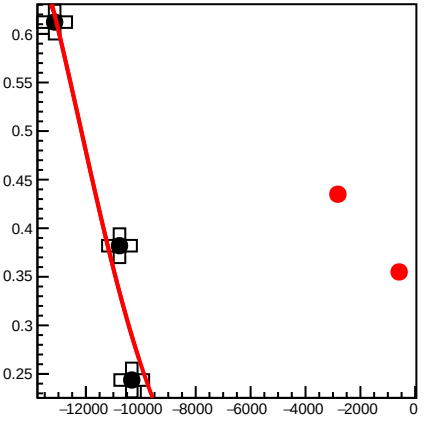
-10776.2 2s1/2 0.382 0.656

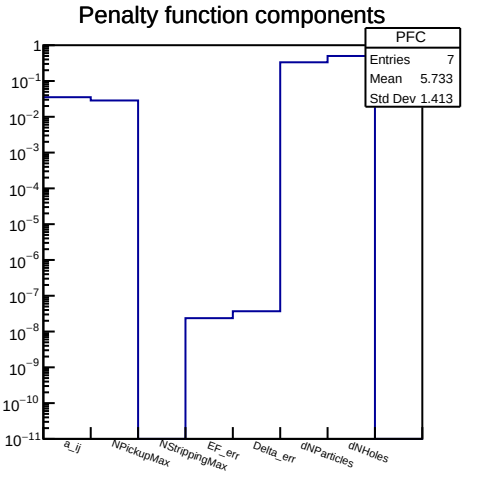
-10329.2 1d3/2 0.24375 1.4175

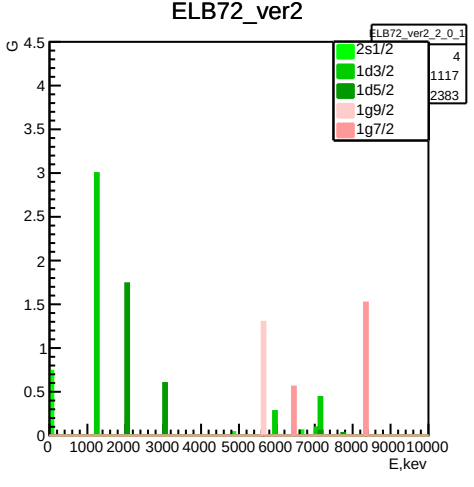
-2820.87 1g9/2 0.435 2.29741e-321

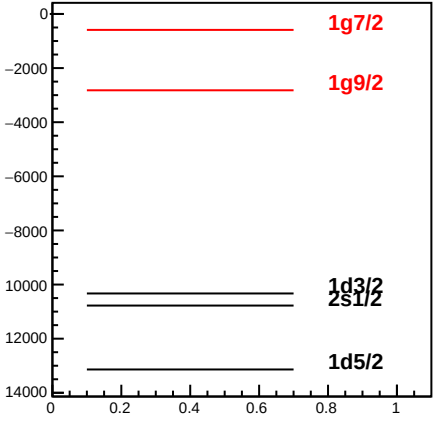
-588.767 1g7/2 0.355 6.92655e-310











Experiment: Sw67 (5) ELB72_ver2 (16)

neutron transfer

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

E_F: -12164.6 ± 399.272 keV

Δ: 3950.26 ± 1121.82 keV

penalty: 0.172535

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

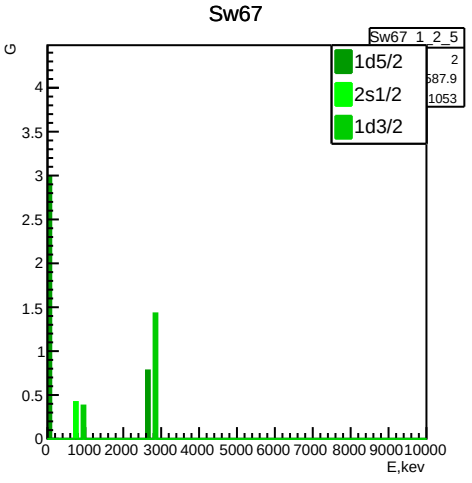
-13138.2 1d5/2 0.612167 1.03233

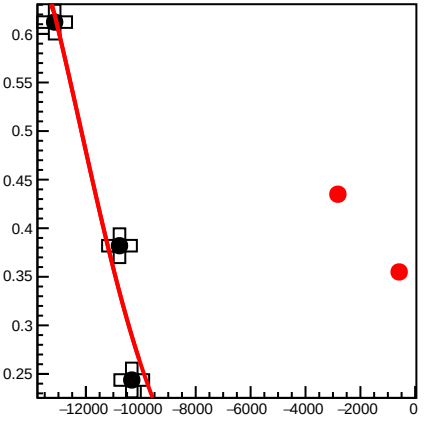
-10776.2 2s1/2 0.382 0.656

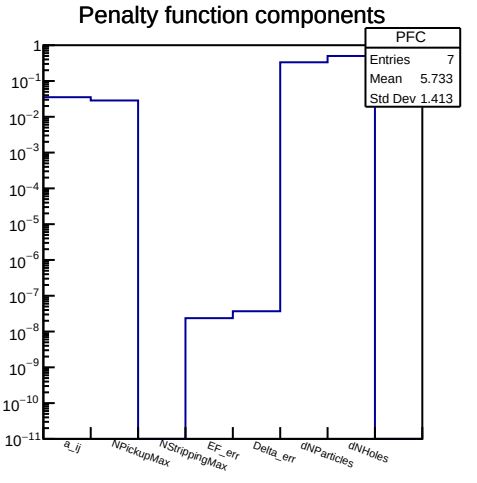
-10329.2 1d3/2 0.24375 1.4175

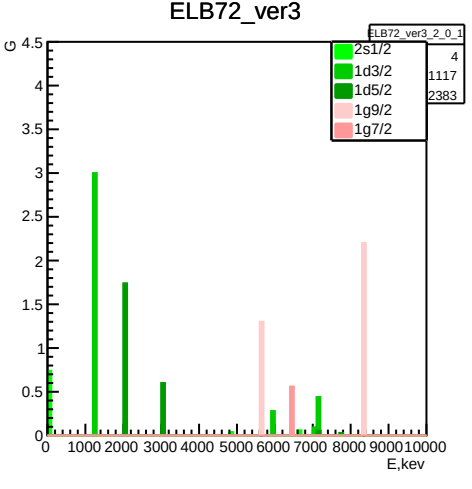
-2820.87 1g9/2 0.435 1.2732e-312

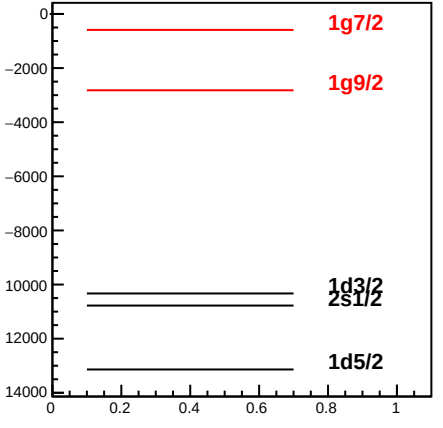
-588.767 1g7/2 0.355 2.37152e-322











Experiment: Sw67 (5) ELB72_ver3 (16)

neutron transfer

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

E_F: -12164.6 ± 399.272 keV

Δ: 3950.26 ± 1121.82 keV

penalty: 0.172535

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

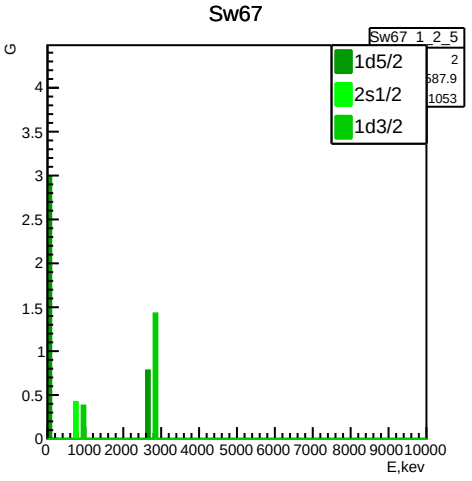
-13138.2 1d5/2 0.612167 1.03233

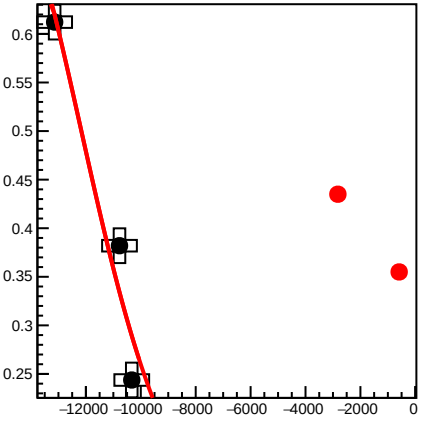
-10776.2 2s1/2 0.382 0.656

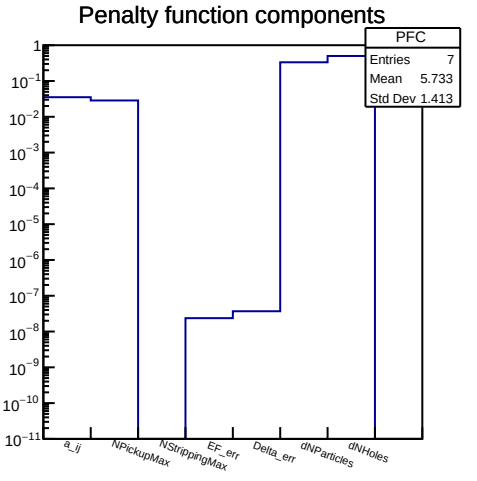
-10329.2 1d3/2 0.24375 1.4175

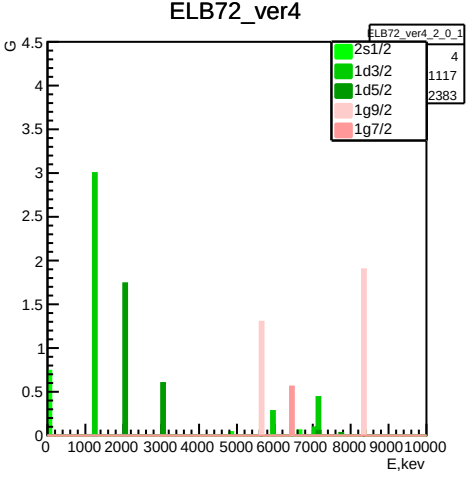
-2820.87 1g9/2 0.435 3.21143e-322

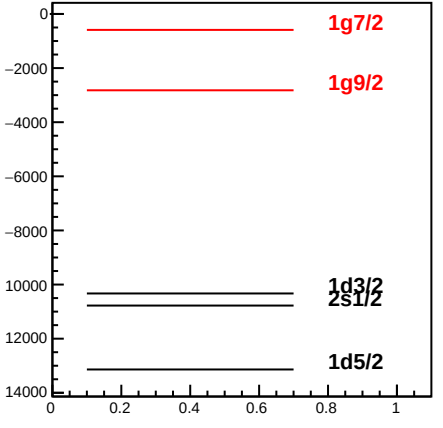
-588.767 1g7/2 0.355 0.0352778











Experiment: Sw67 (5) ELB72_ver4 (16)

neutron transfer

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

E_F: -12164.6 ± 399.272 keV

Δ: 3950.26 ± 1121.82 keV

penalty: 0.172535

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

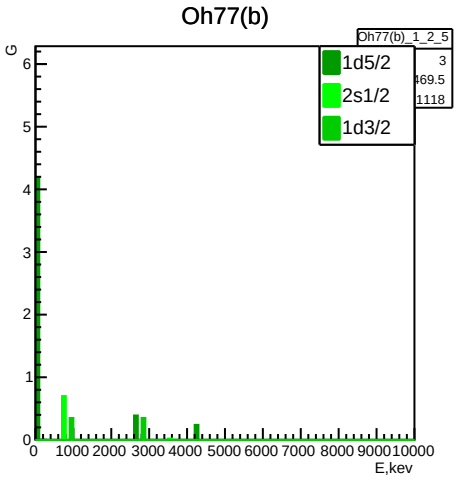
-13138.2 1d5/2 0.612167 1.03233

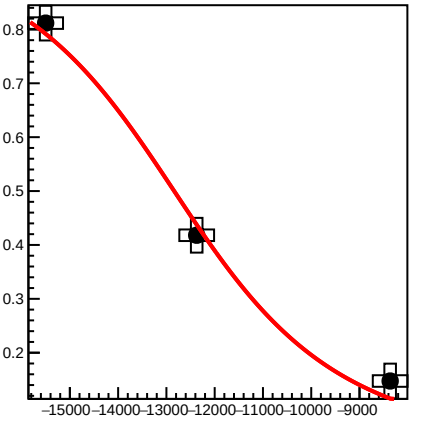
-10776.2 2s1/2 0.382 0.656

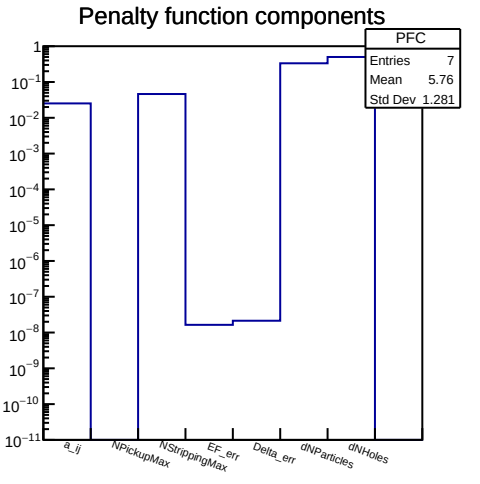
-10329.2 1d3/2 0.24375 1.4175

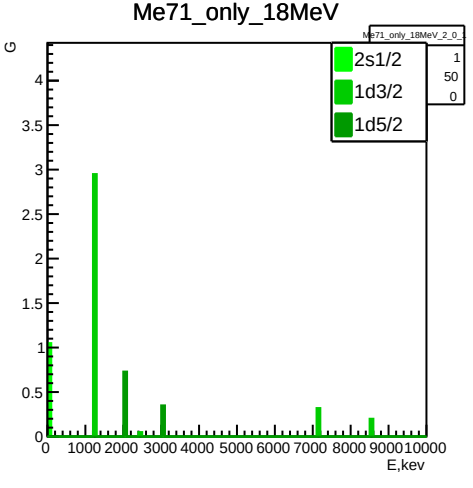
-2820.87 1g9/2 0.435 1.2732e-313

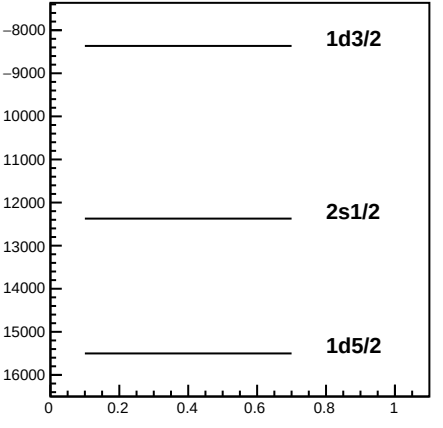
-588.767 1g7/2 0.355 2.37152e-322











Experiment: Oh77(b) (7) Me71_only_18MeV (

neutron transfer

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

E_F: -12839.2 ± 277.089 keV

Δ: 3705.53 ± 649.642 keV

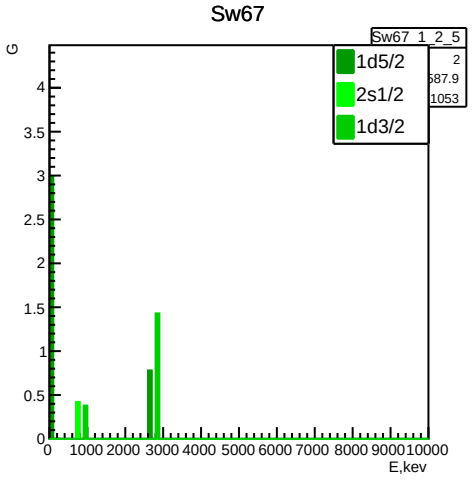
penalty: 0.173983

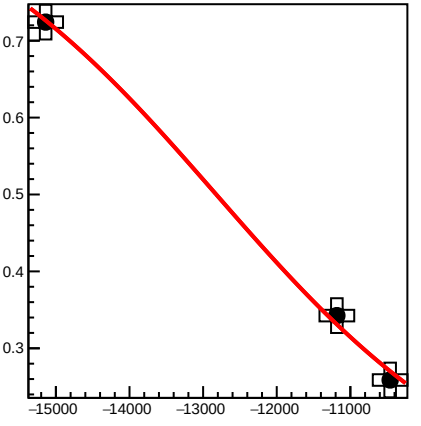
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

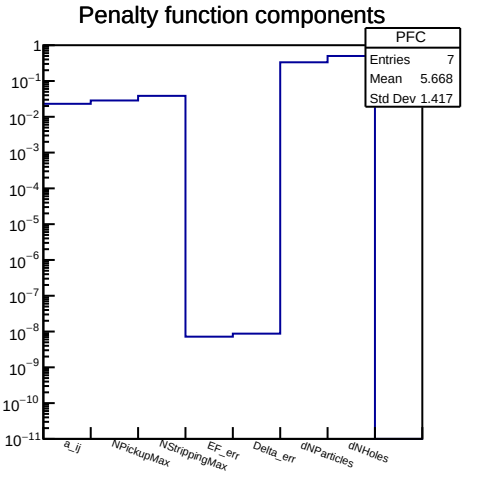
-15501.6 1d5/2 0.811667 0.983333

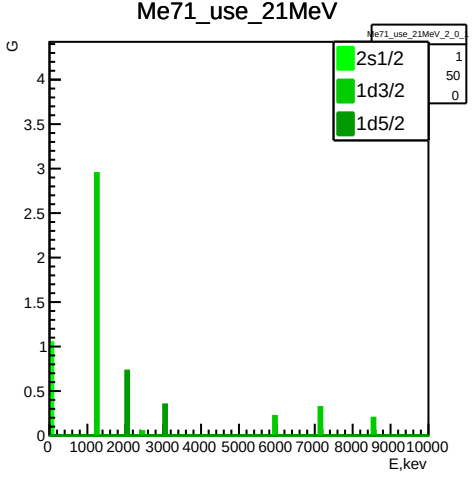
-12372.5 2s1/2 0.418 0.886

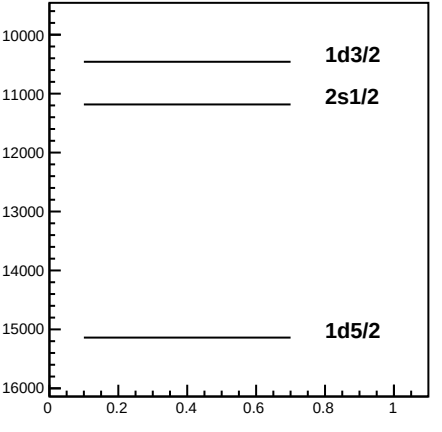
-8365.18 1d3/2 0.1475 1.055











Experiment: Sw67 (5) Me71_use_21MeV (8)

neutron transfer

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

E_F: -12821.8 $\pm$ 121.369 keV

Δ: 4565.43 $\pm$ 265.452 keV

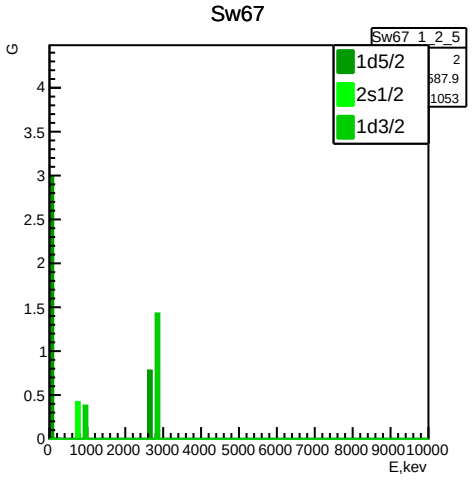
penalty: 0.177581

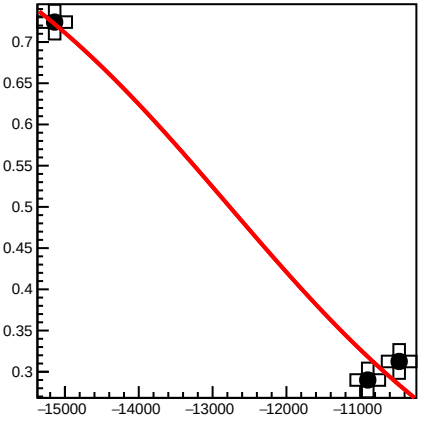
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

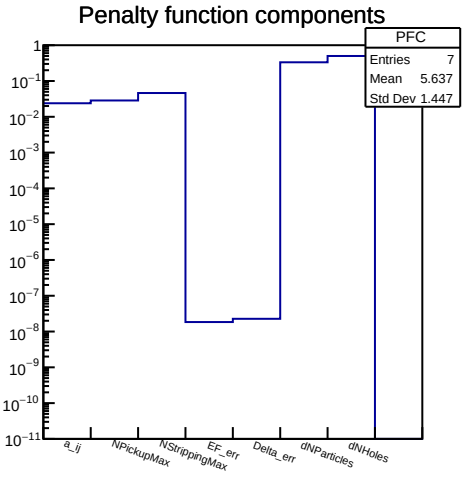
-15139.1 1d5/2 0.724167 0.808333

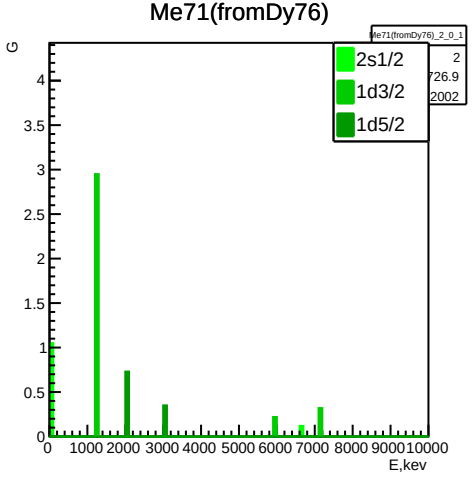
-11183.3 2s1/2 0.3425 0.735

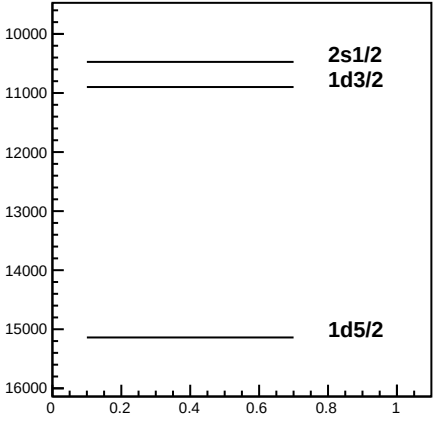
-10459.3 1d3/2 0.25875 1.3875











Experiment: Sw67 (5) Me71(fromDy76) (7)

neutron transfer

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

E_F: -12768 ± 310.946 keV

Δ: 4790.61 ± 689.83 keV

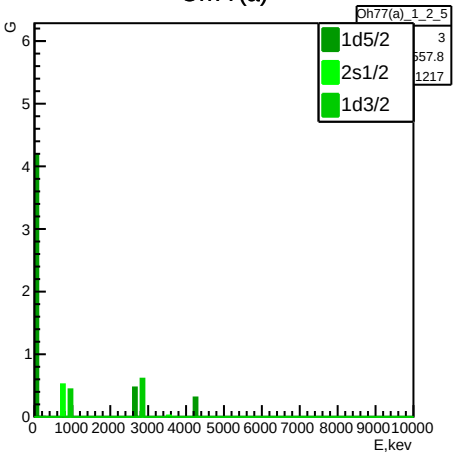
penalty: 0.179221

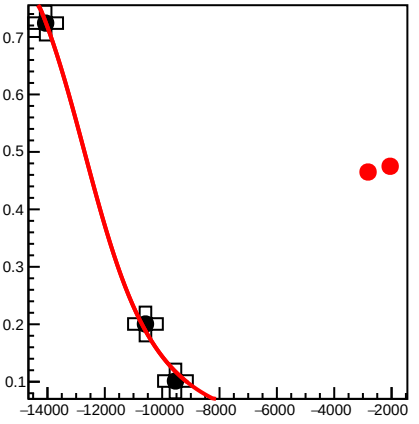
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

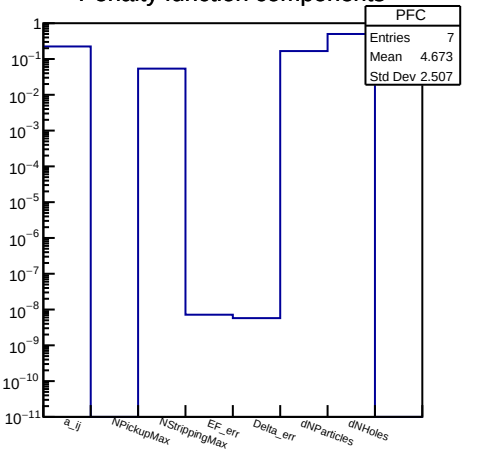
-15139.1 1d5/2 0.724167 0.808333

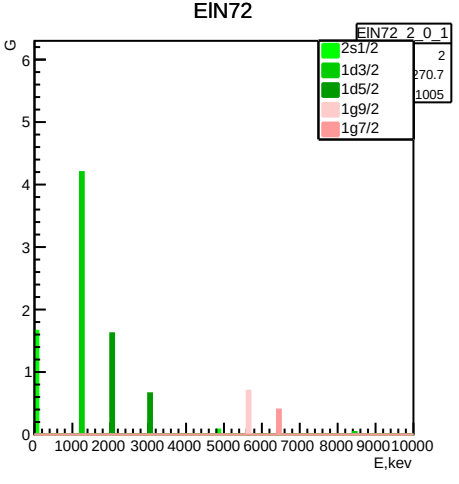
-10473.4 2s1/2 0.3125 0.795

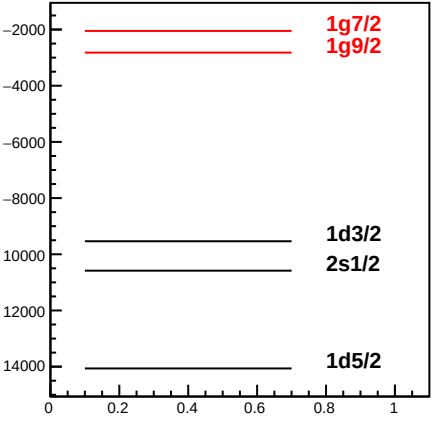
-10898.9 1d3/2 0.29 1.325











Experiment: Oh77(a) (7) EIN72 (8)

neutron transfer

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

E_F: -12709.1 ± 121.082 keV

Δ: -2672.75 ± 174.985 keV

penalty: 0.181626

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

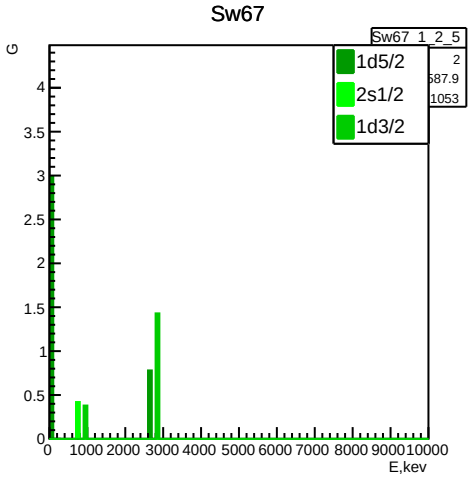
-14063.3 1d5/2 0.724167 1.20833

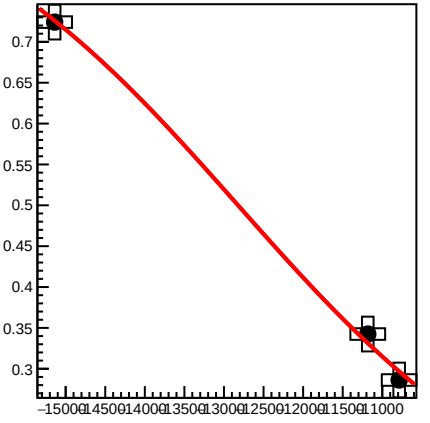
-10583 2s1/2 0.2005 1.141

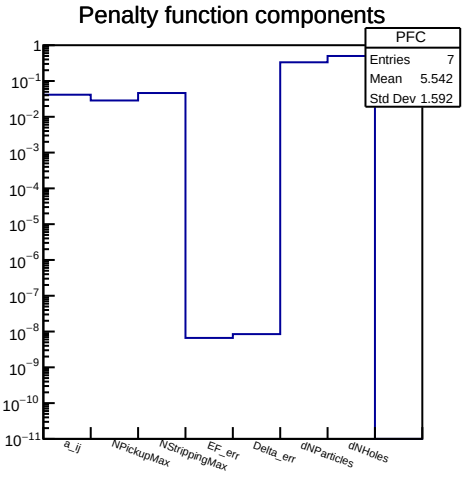
-9536.41 1d3/2 0.10125 1.3225

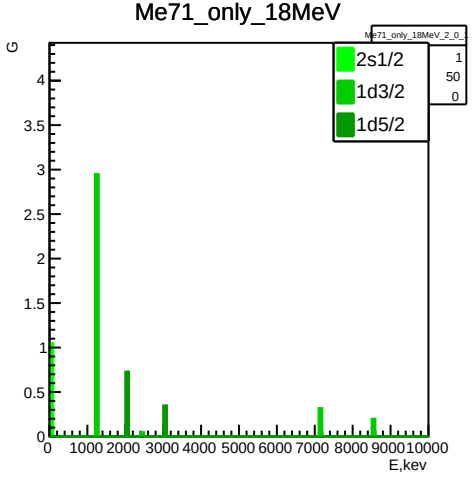
-2820.87 1g9/2 0.465 5.58294e-322

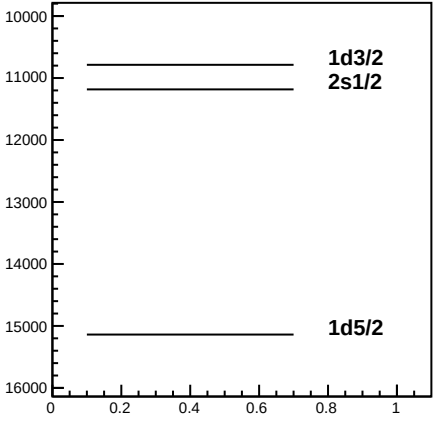
-2049.87 1g7/2 0.475 6.92655e-310











Experiment: Sw67 (5) Me71_only_18MeV (7)

neutron transfer

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

E_F: -12821.8 ± 111.923 keV

Δ: 4574.83 ± 257.656 keV

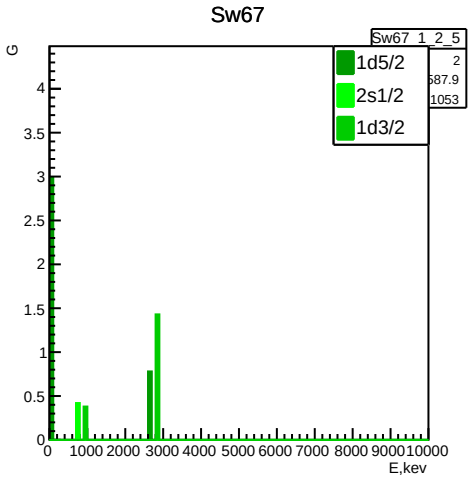
penalty: 0.182586

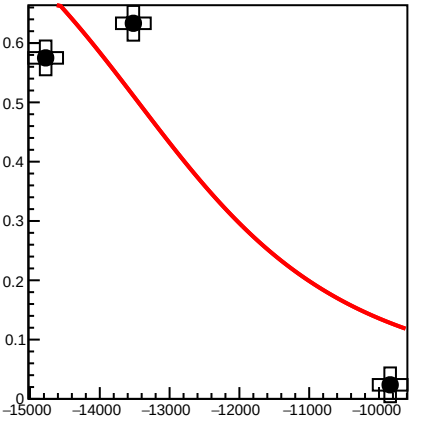
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

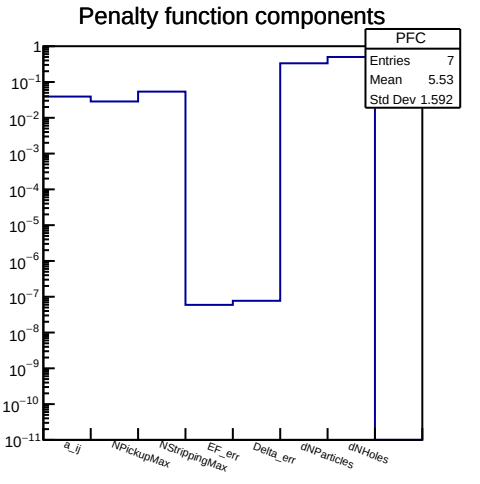
-15139.1 1d5/2 0.724167 0.808333

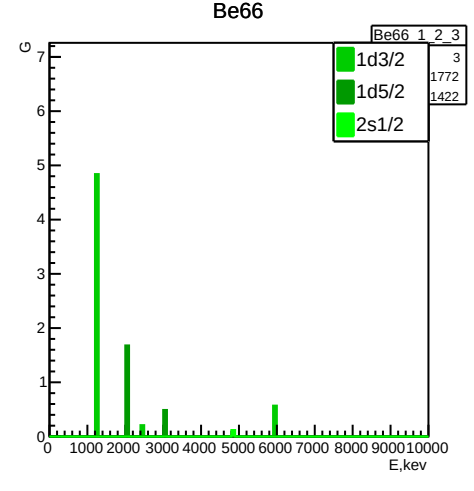
-11183.3 2s1/2 0.3425 0.735

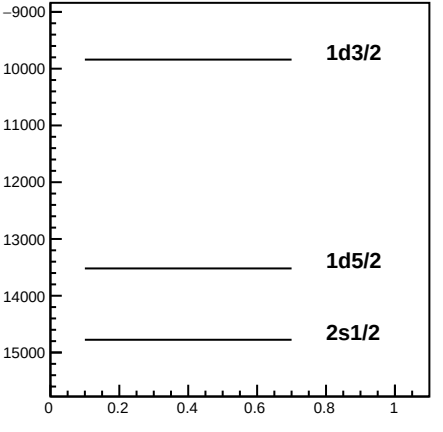
-10786.8 1d3/2 0.28625 1.3325











Experiment: Sw67 (5) Be66 (6)

neutron transfer

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

E_F: -13447.1 ± 1001.37 keV

Δ: 3241.22 ± 2341.43 keV

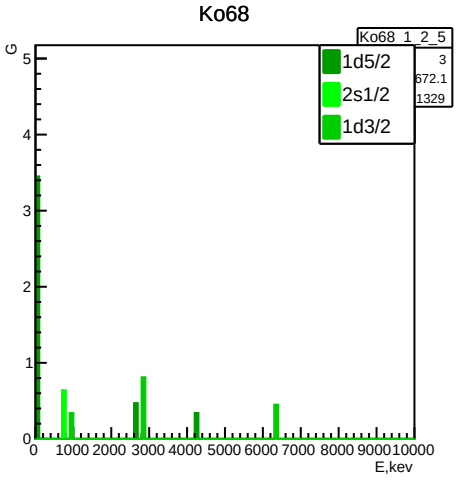
penalty: 0.183638

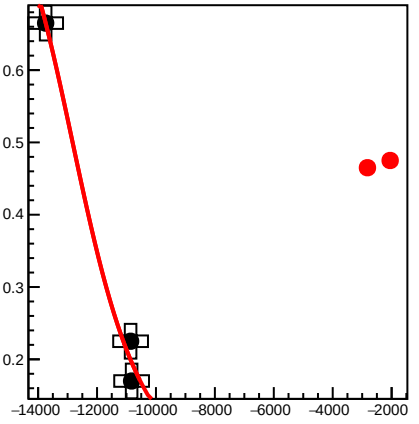
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

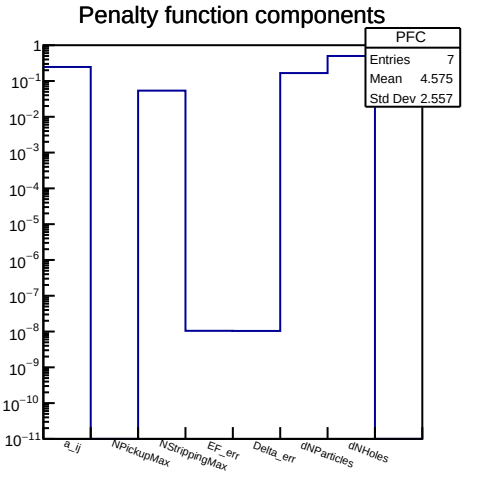
-13519.1 1d5/2 0.633333 0.99

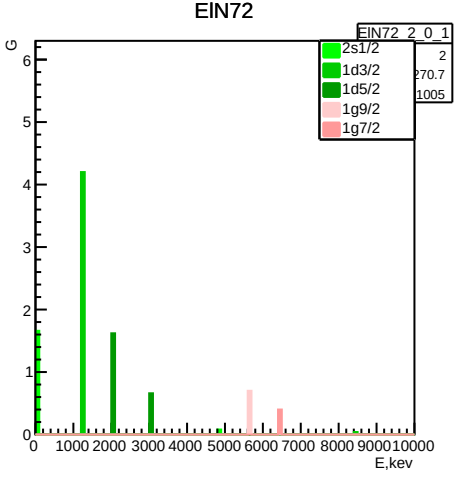
-14775.8 2s1/2 0.575 0.27

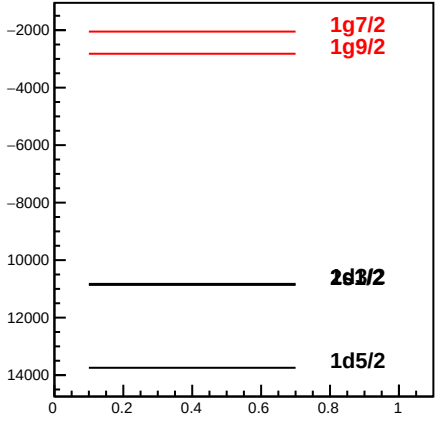
-9840.02 1d3/2 0.02375 1.8575











Experiment: Ko68 (7) EIN72 (8)

neutron transfer

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

E_F: -12829.6 ± 176.908 keV

Δ: -2614.15 ± 315.866 keV

penalty: 0.185996

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

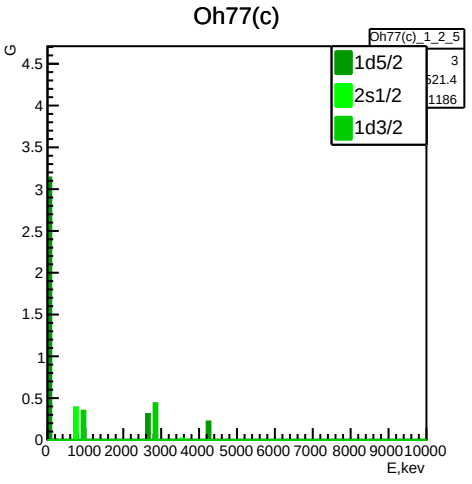
-13744.8 1d5/2 0.665 1.09

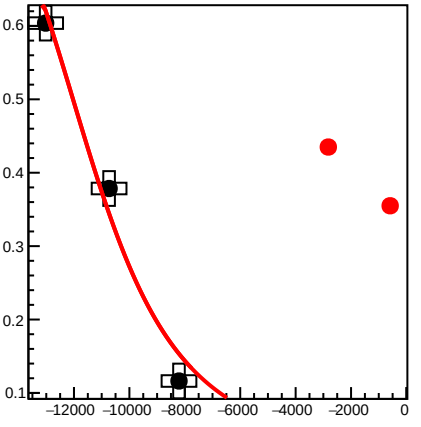
-10861.2 2s1/2 0.225 1.19

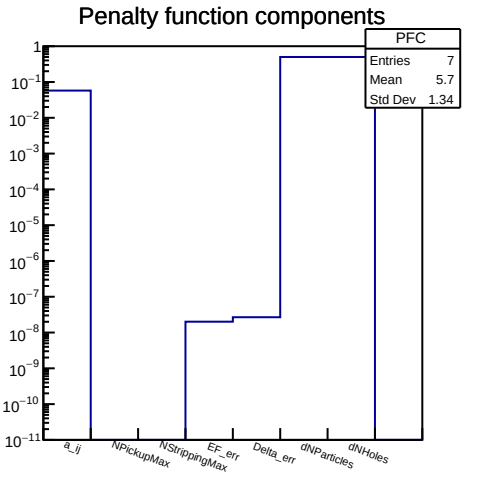
-10826.4 1d3/2 0.17 1.46

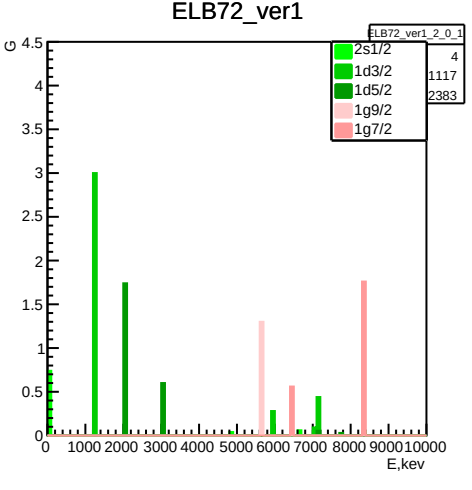
-2820.87 1g9/2 0.465 5.58294e-322

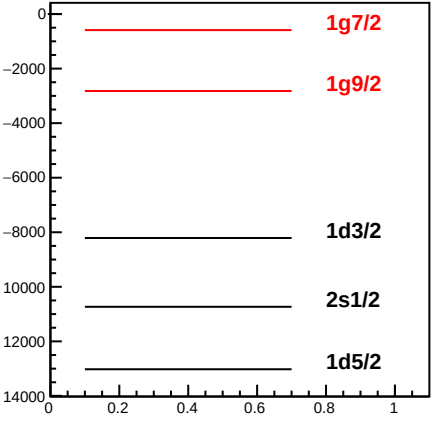
-2049.87 1g7/2 0.475 6.92655e-310











Experiment: Oh77(c) (7) ELB72_ver1 (16)

neutron transfer

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

E_F: -12034.5 ± 339.413 keV

Δ: 3974.9 ± 814.096 keV

penalty: 0.203387

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

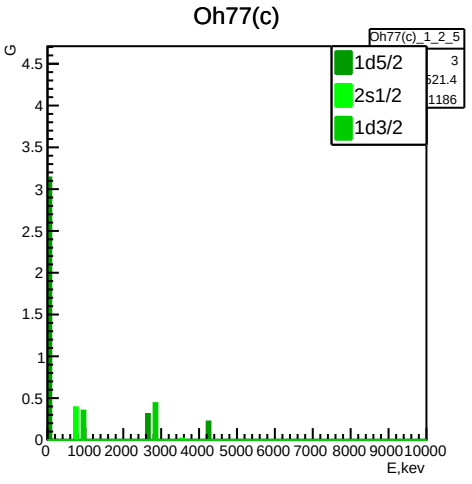
-13022.6 1d5/2 0.603833 1.01567

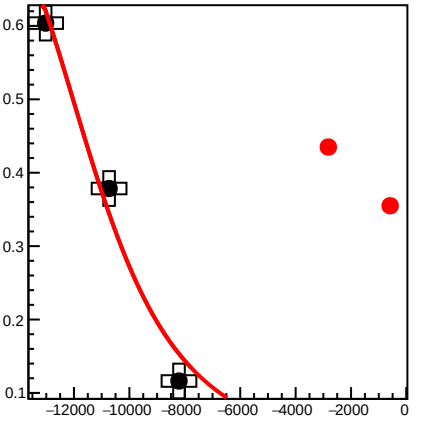
-10732.8 2s1/2 0.3785 0.649

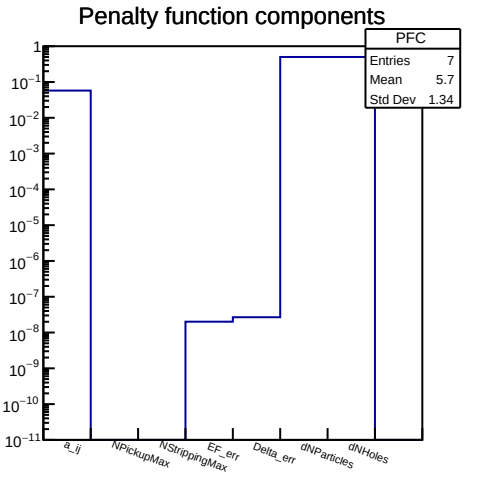
-8210.28 1d3/2 0.11625 1.1625

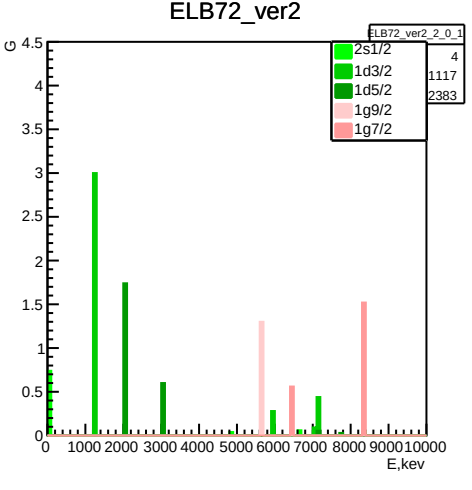
-2820.87 1g9/2 0.435 3.21143e-322

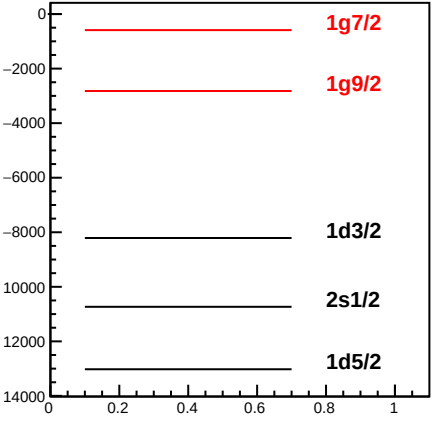
-588.767 1g7/2 0.355 0.0576111











Experiment: Oh77(c) (7) ELB72_ver2 (16)

neutron transfer

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

E_F: -12034.5 ± 339.413 keV

Δ: 3974.9 ± 814.096 keV

penalty: 0.203387

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

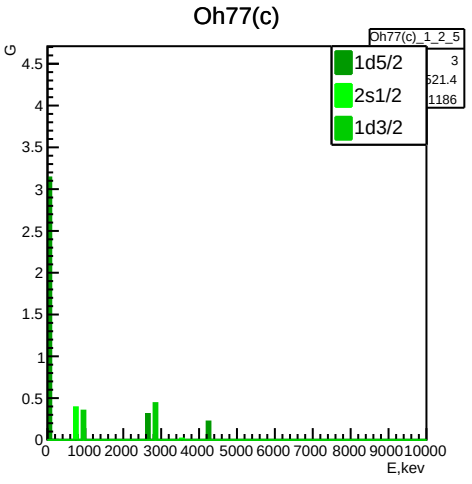
-13022.6 1d5/2 0.603833 1.01567

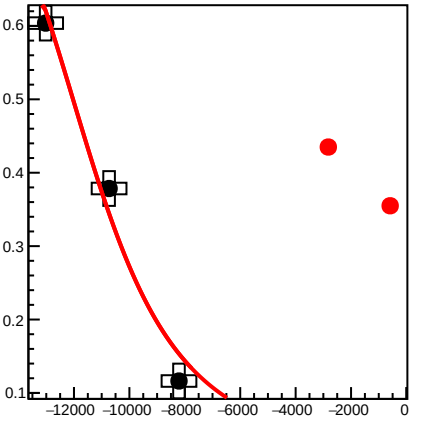
-10732.8 2s1/2 0.3785 0.649

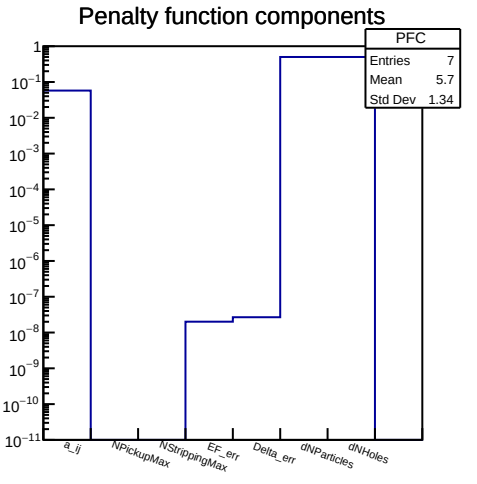
-8210.28 1d3/2 0.11625 1.1625

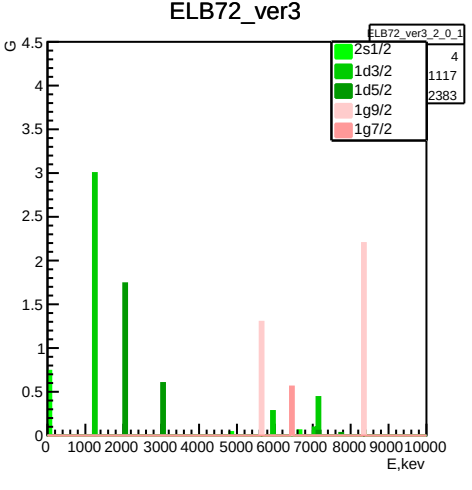
-2820.87 1g9/2 0.435 4.68096e-310

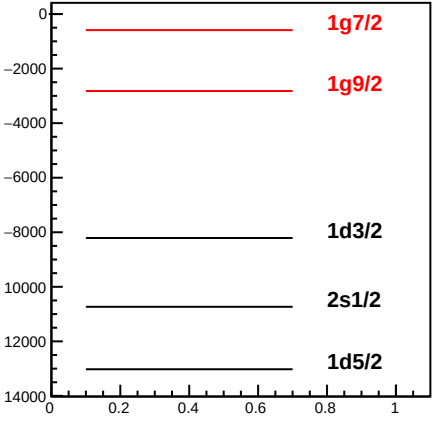
-588.767 1g7/2 0.355 2.37152e-322











Experiment: Oh77(c) (7) ELB72_ver3 (16)

neutron transfer

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

E_F: -12034.5 ± 339.413 keV

Δ: 3974.9 ± 814.096 keV

penalty: 0.203387

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

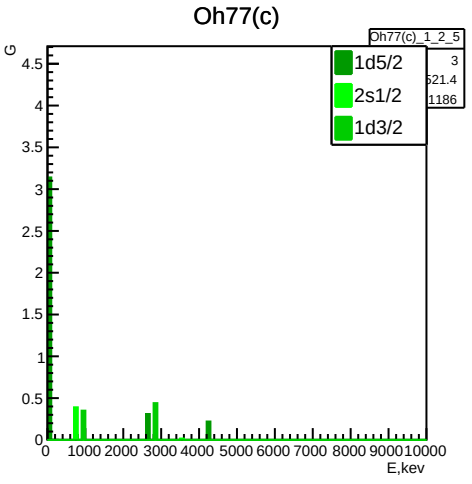
-13022.6 1d5/2 0.603833 1.01567

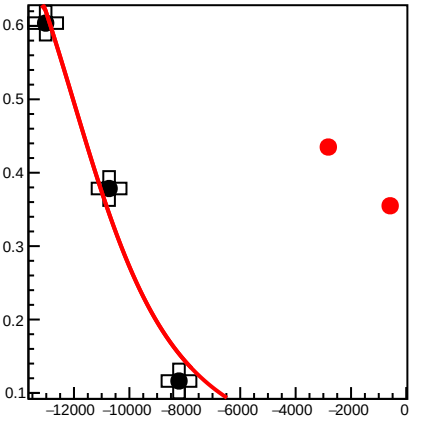
-10732.8 2s1/2 0.3785 0.649

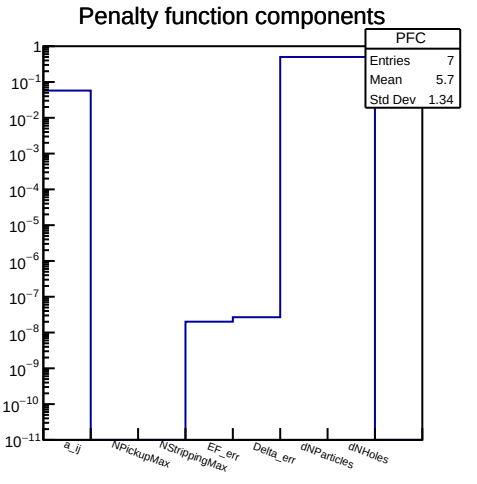
-8210.28 1d3/2 0.11625 1.1625

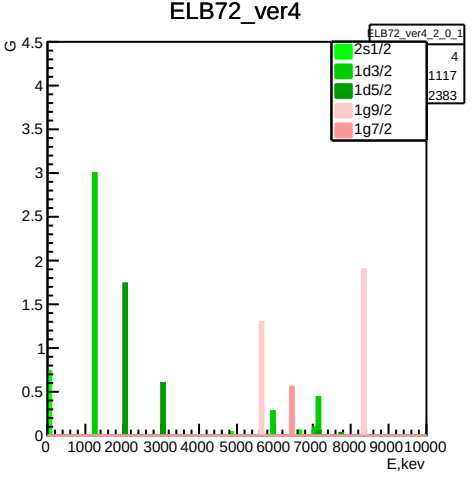
-2820.87 1g9/2 0.435 1.57028e-312

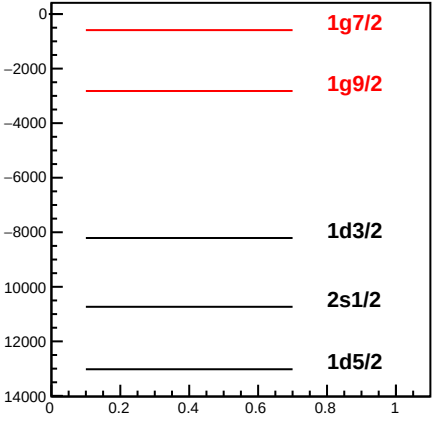
-588.767 1g7/2 0.355 2.37152e-322











Experiment: Oh77(c) (7) ELB72_ver4 (16)

neutron transfer

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

E_F: -12034.5 ± 339.413 keV

Δ: 3974.9 ± 814.096 keV

penalty: 0.203387

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

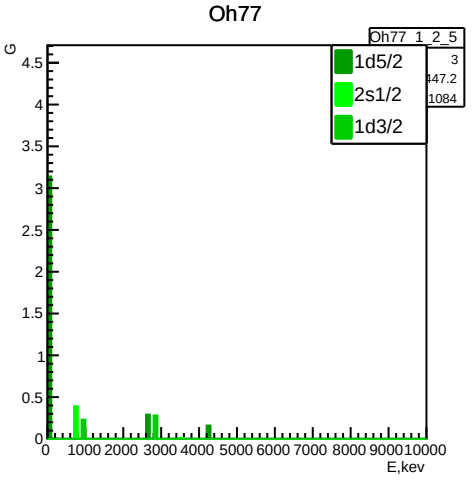
-13022.6 1d5/2 0.603833 1.01567

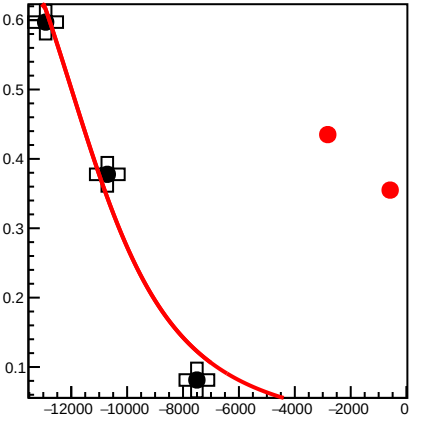
-10732.8 2s1/2 0.3785 0.649

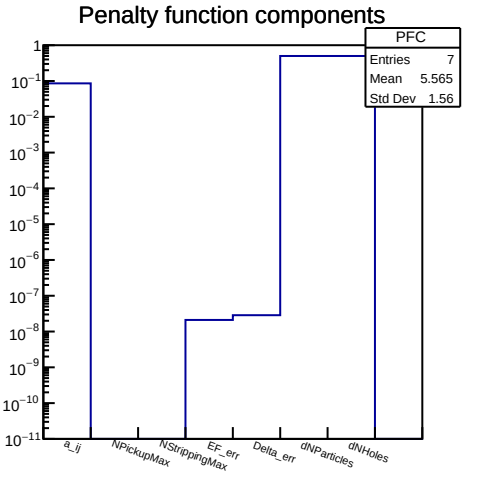
-8210.28 1d3/2 0.11625 1.1625

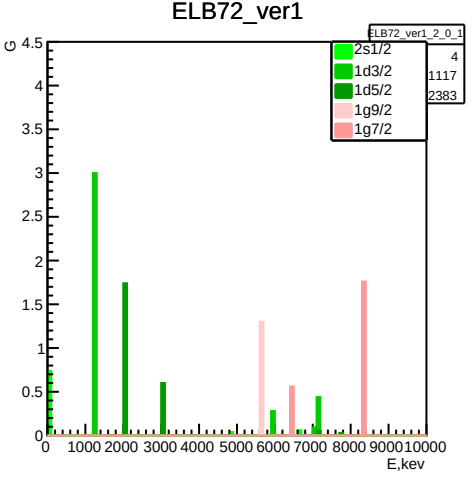
-2820.87 1g9/2 0.435 1.2732e-313

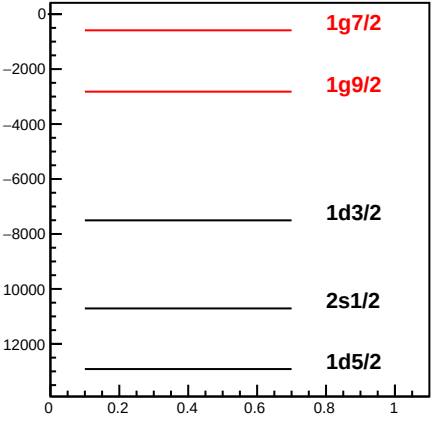
-588.767 1g7/2 0.355 2.37152e-322











Experiment: Oh77 (7) ELB72_ver1 (16)

neutron transfer

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

E_F: -11988.3 ± 355.981 keV

Δ: 3899.94 ± 870.101 keV

penalty: 0.208825

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

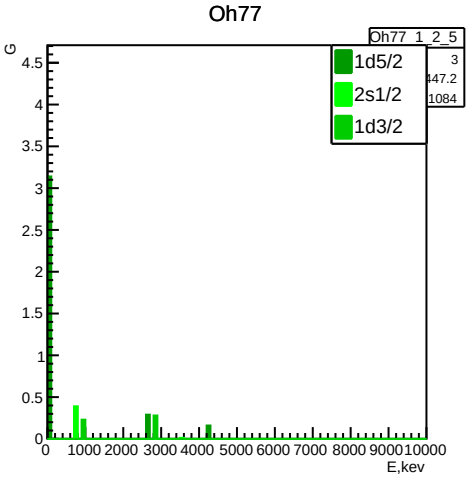
-12915.7 1d5/2 0.597167 1.00233

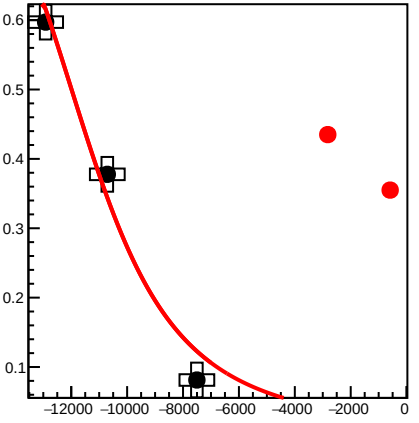
-10709.6 2s1/2 0.37775 0.6475

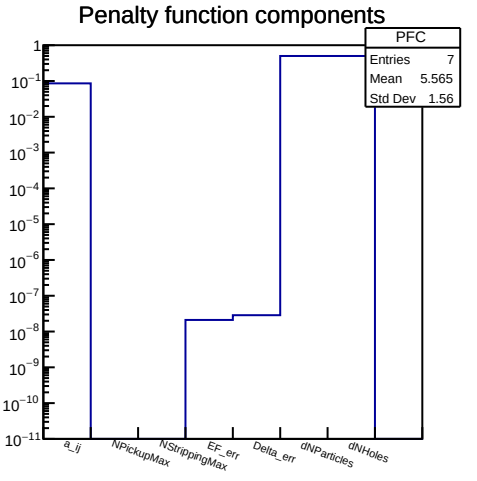
-7504.41 1d3/2 0.08125 1.0925

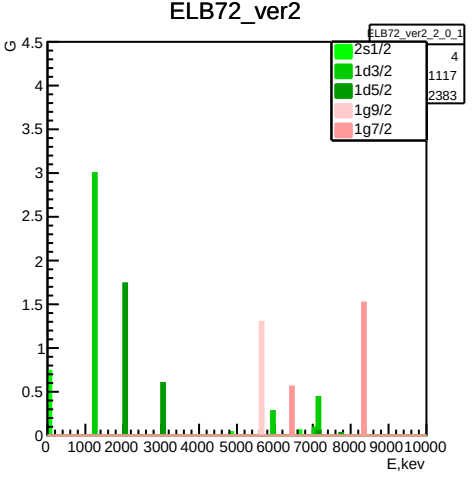
-2820.87 1g9/2 0.435 5.58294e-322

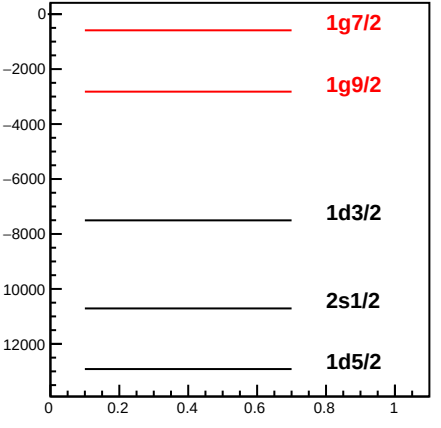
-588.767 1g7/2 0.355 6.92655e-310











Experiment: Oh77 (7) ELB72_ver2 (16)

neutron transfer

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

E_F: -11988.3 ± 355.981 keV

Δ: 3899.94 ± 870.101 keV

penalty: 0.208825

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

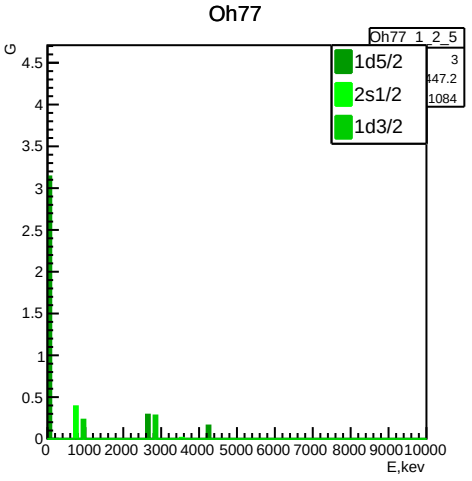
-12915.7 1d5/2 0.597167 1.00233

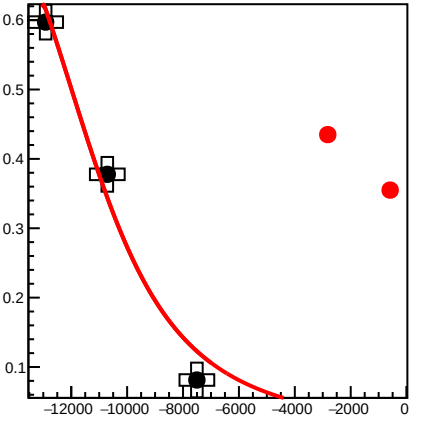
-10709.6 2s1/2 0.37775 0.6475

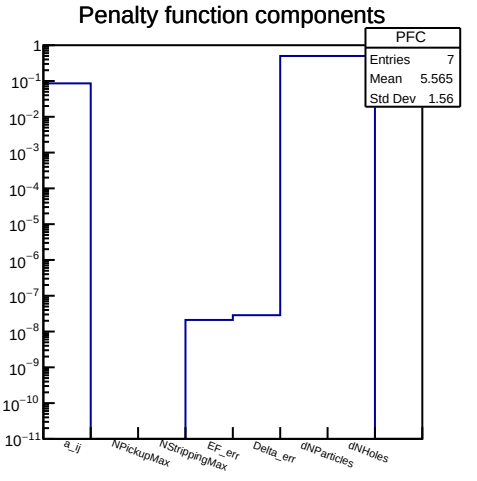
-7504.41 1d3/2 0.08125 1.0925

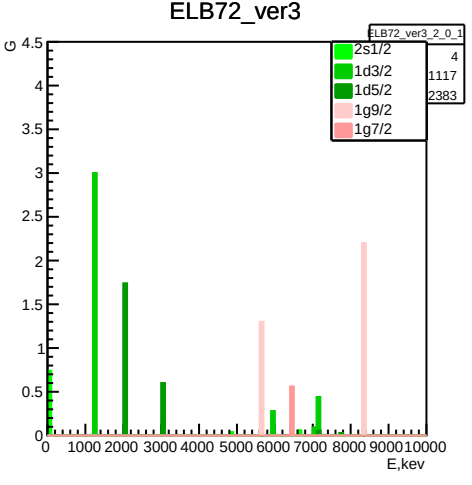
-2820.87 1g9/2 0.435 3.21143e-322

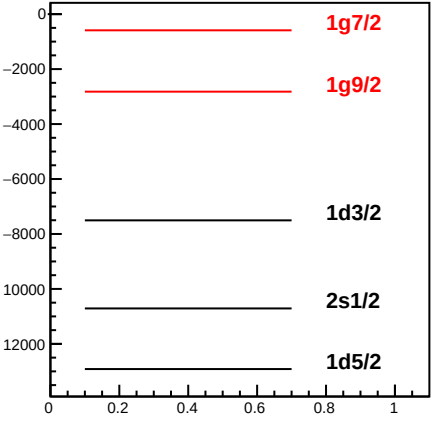
-588.767 1g7/2 0.355 0.0858889











Experiment: Oh77 (7) ELB72_ver3 (16)

neutron transfer

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

E_F: -11988.3 ± 355.981 keV

Δ: 3899.94 ± 870.101 keV

penalty: 0.208825

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

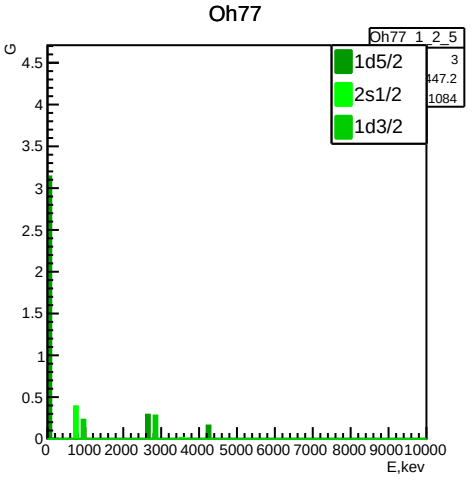
-12915.7 1d5/2 0.597167 1.00233

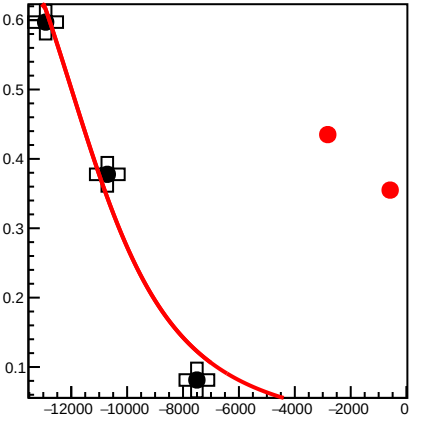
-10709.6 2s1/2 0.37775 0.6475

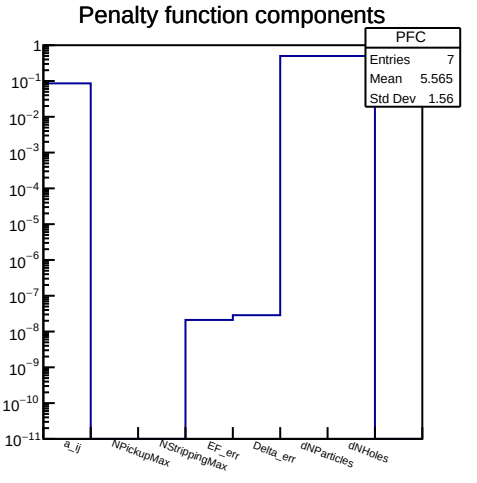
-7504.41 1d3/2 0.08125 1.0925

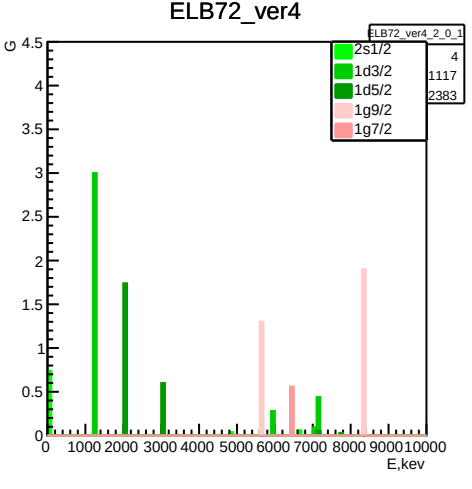
-2820.87 1g9/2 0.435 5.58294e-322

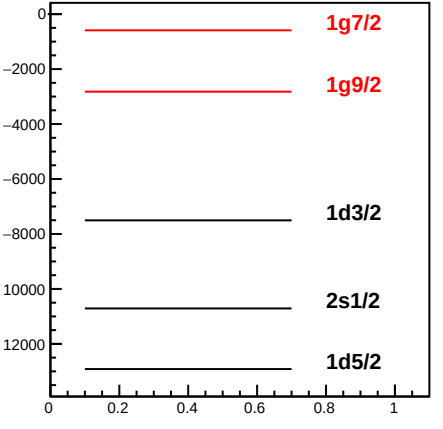
-588.767 1g7/2 0.355 6.92655e-310











Experiment: Oh77 (7) ELB72_ver4 (16)

neutron transfer

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

E_F: -11988.3 ± 355.981 keV

Δ: 3899.94 ± 870.101 keV

penalty: 0.208825

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

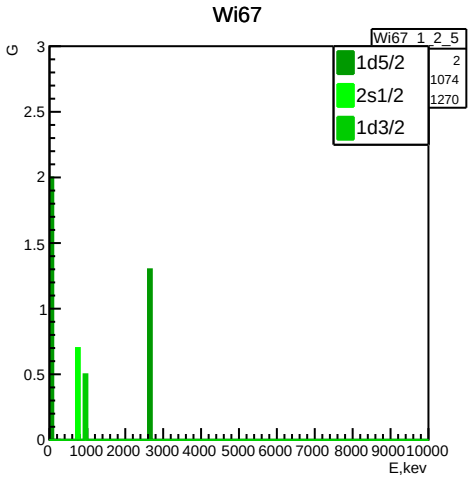
-12915.7 1d5/2 0.597167 1.00233

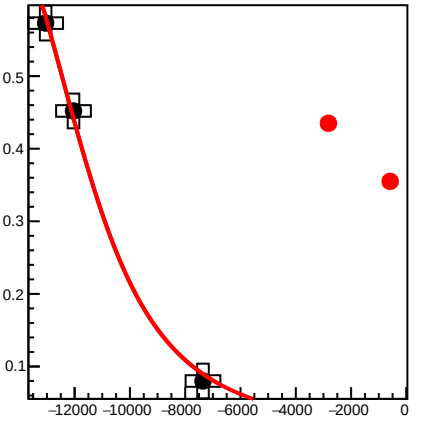
-10709.6 2s1/2 0.37775 0.6475

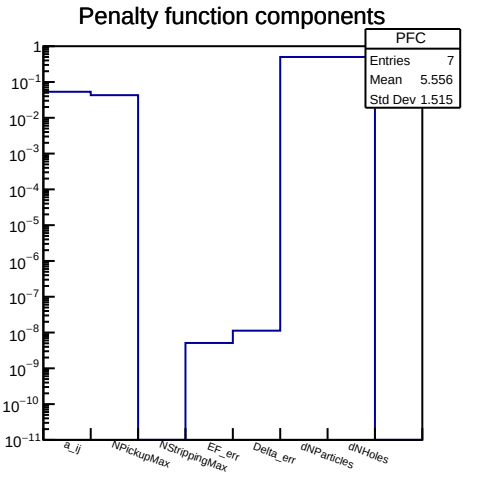
-7504.41 1d3/2 0.08125 1.0925

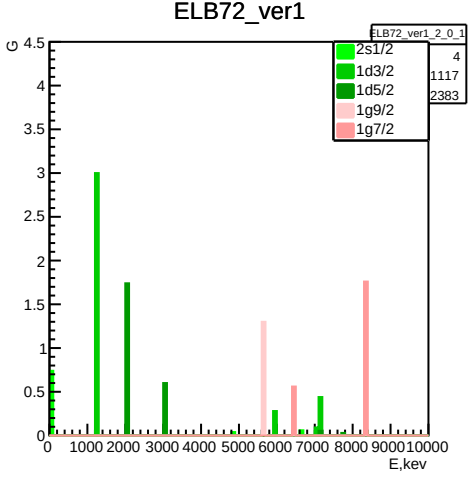
-2820.87 1g9/2 0.435 4.68097e-310

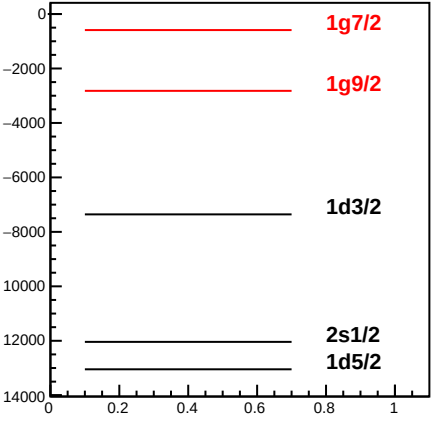
-588.767 1g7/2 0.355 2.37152e-322











Experiment: Wi67 (4) ELB72_ver1 (16)

neutron transfer

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

E_F: -12457 ± 86.3113 keV

Δ: 3550.24 ± 342.851 keV

penalty: 0.210806

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

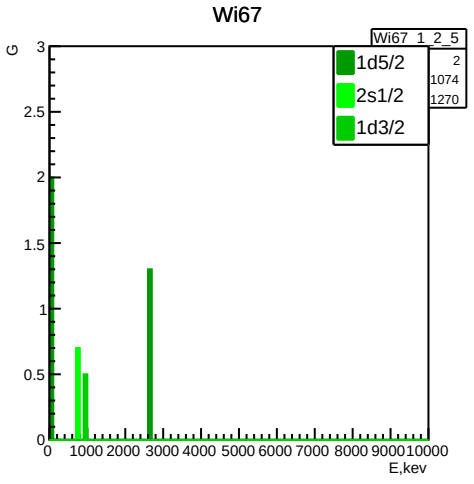
-13047 1d5/2 0.573 0.954

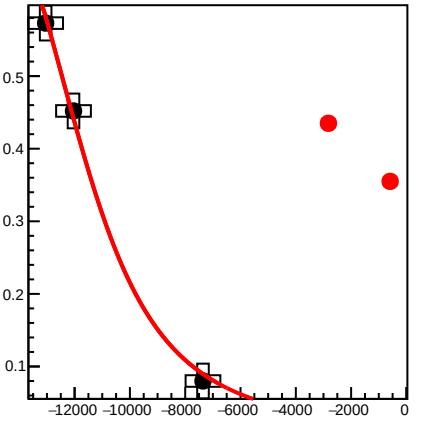
-12039.6 2s1/2 0.452 0.796

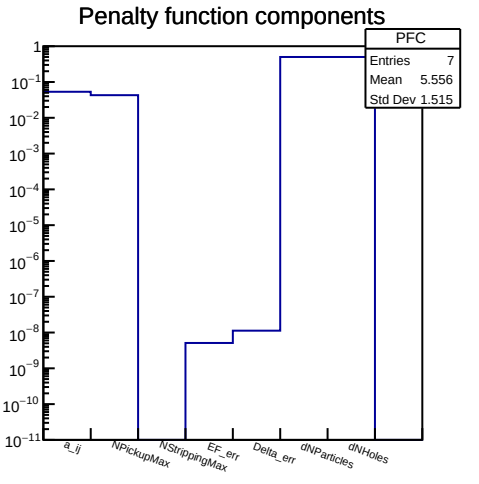
-7357.44 1d3/2 0.08 1.09

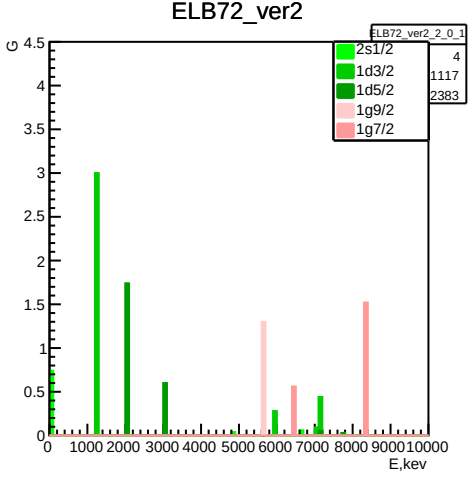
-2820.87 1g9/2 0.435 1.2732e-313

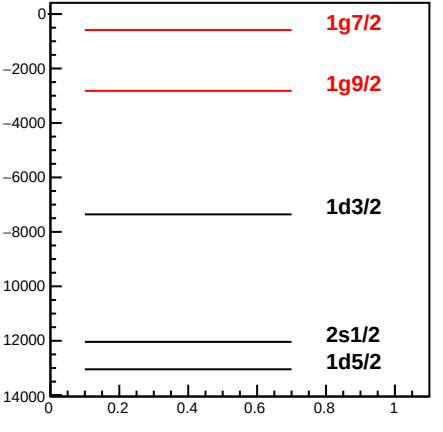
-588.767 1g7/2 0.355 2.37152e-322











Experiment: Wi67 (4) ELB72_ver2 (16)

neutron transfer

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

E_F: -12457 ± 86.3113 keV

Δ: 3550.24 ± 342.851 keV

penalty: 0.210806

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

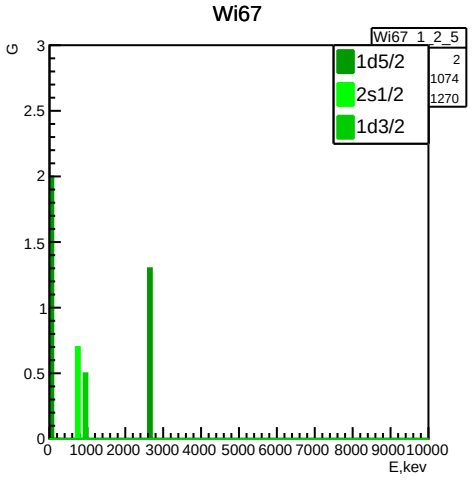
-13047 1d5/2 0.573 0.954

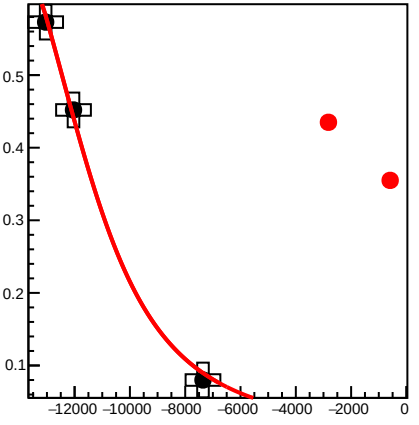
-12039.6 2s1/2 0.452 0.796

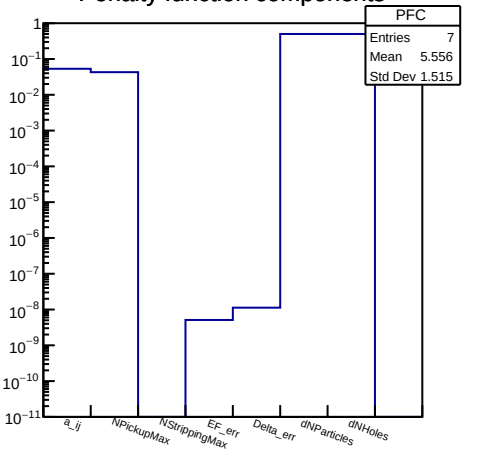
-7357.44 1d3/2 0.08 1.09

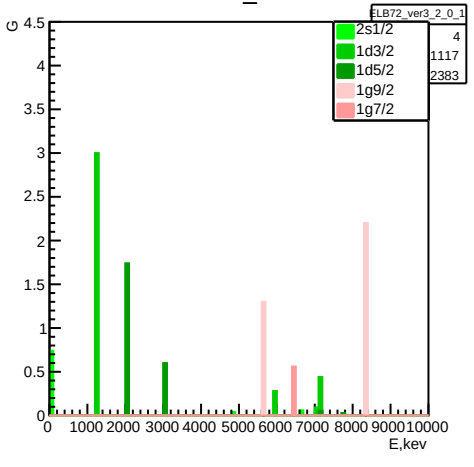
-2820.87 1g9/2 0.435 8.74496e-322

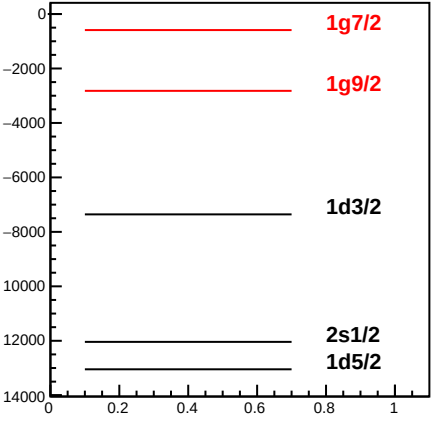
-588.767 1g7/2 0.355 0.5











Experiment: Wi67 (4) ELB72_ver3 (16)

neutron transfer

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

E_F: -12457 ± 86.3113 keV

Δ: 3550.24 ± 342.851 keV

penalty: 0.210806

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

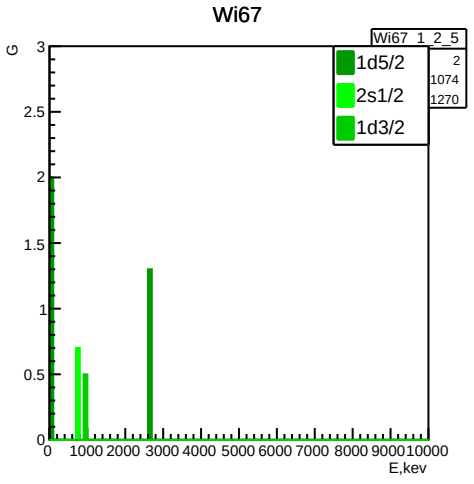
-13047 1d5/2 0.573 0.954

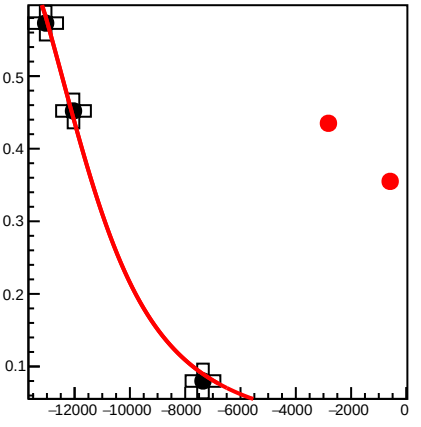
-12039.6 2s1/2 0.452 0.796

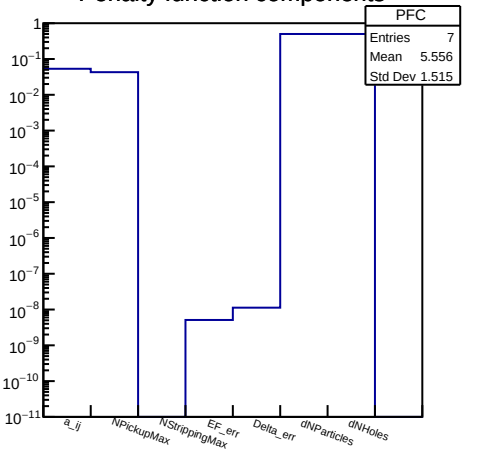
-7357.44 1d3/2 0.08 1.09

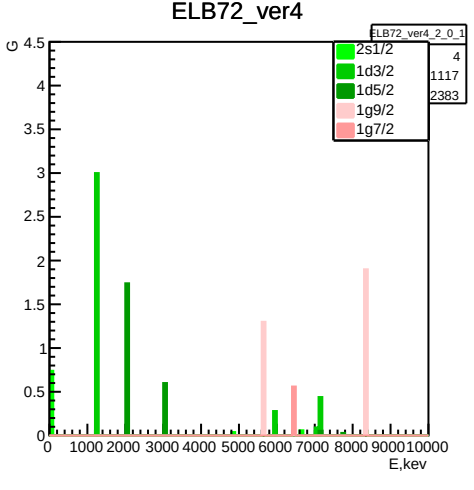
-2820.87 1g9/2 0.435 5.58294e-322

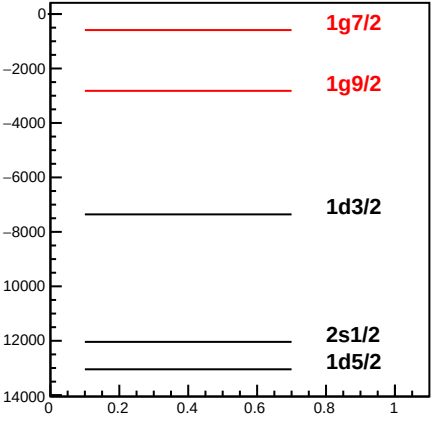
-588.767 1g7/2 0.355 6.92655e-310











Experiment: Wi67 (4) ELB72_ver4 (16)

neutron transfer

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

E_F: -12457 ± 86.3113 keV

Δ: 3550.24 ± 342.851 keV

penalty: 0.210806

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

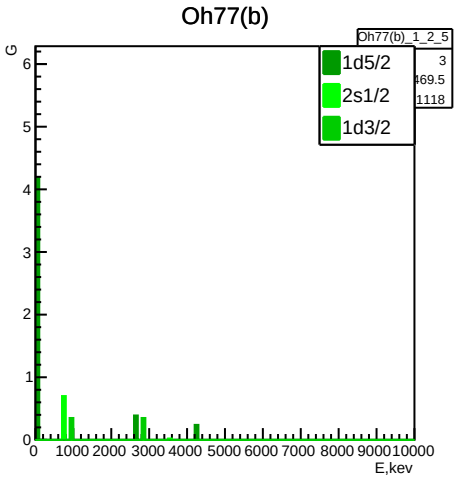
-13047 1d5/2 0.573 0.954

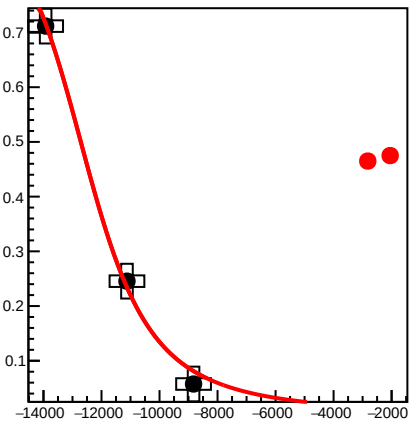
-12039.6 2s1/2 0.452 0.796

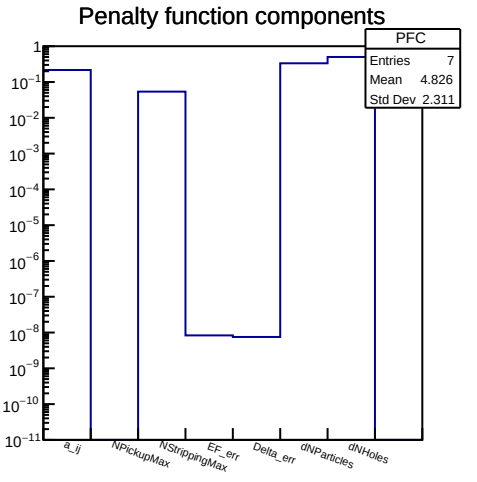
-7357.44 1d3/2 0.08 1.09

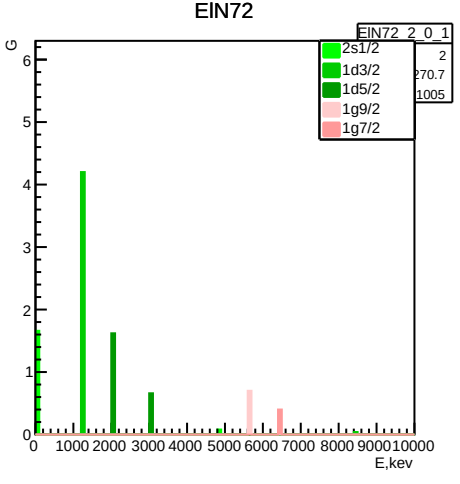
-2820.87 1g9/2 0.435 5.58294e-322

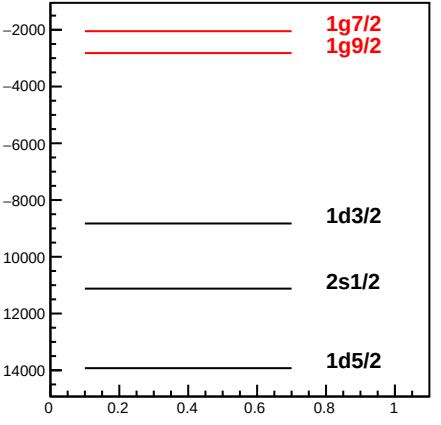
-588.767 1g7/2 0.355 6.92655e-310











Experiment: Oh77(b) (7) EIN72 (8)

neutron transfer

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

E_F: -12713 ± 140.528 keV

Δ: -2531.81 ± 228.541 keV

penalty: 0.212235

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

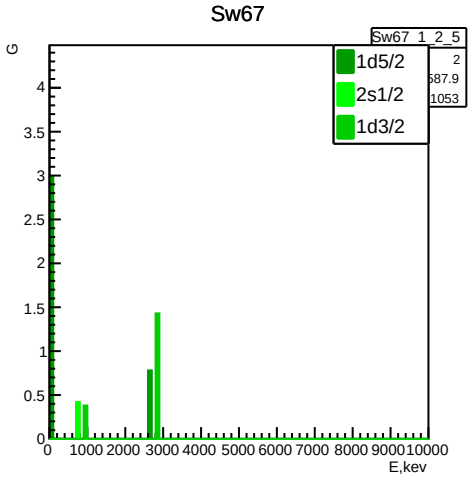
-13925.4 1d5/2 0.711667 1.18333

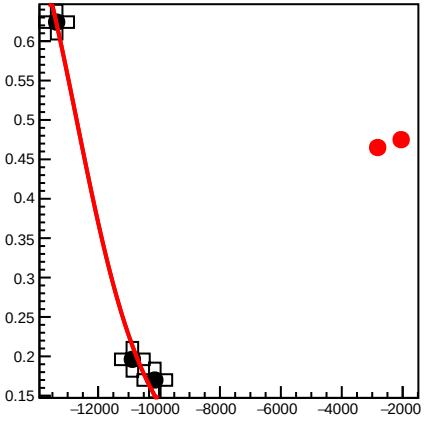
-11122.3 2s1/2 0.2455 1.231

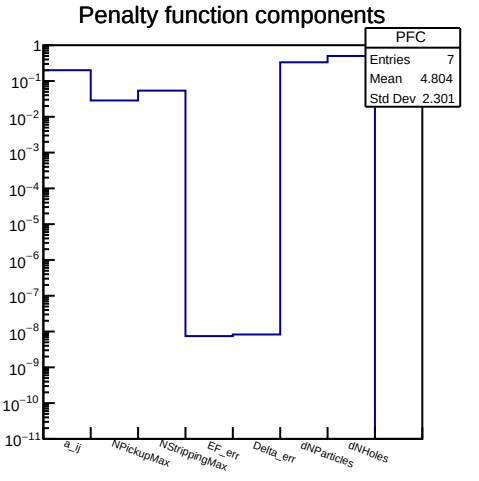
-8826.65 1d3/2 0.0575 1.235

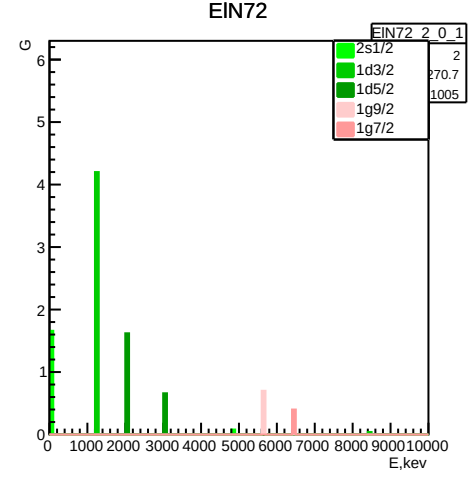
-2820.87 1g9/2 0.465 5.58294e-322

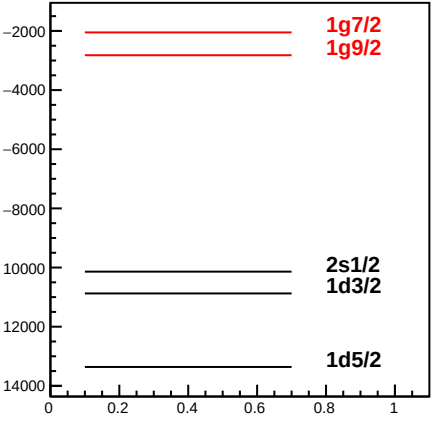
-2049.87 1g7/2 0.475 6.92655e-310











Experiment: Sw67 (5) EIN72 (8)

neutron transfer

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

E_F: -12704.3 ± 125.946 keV

Δ: 2616.69 ± 251.497 keV

penalty: 0.214621

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

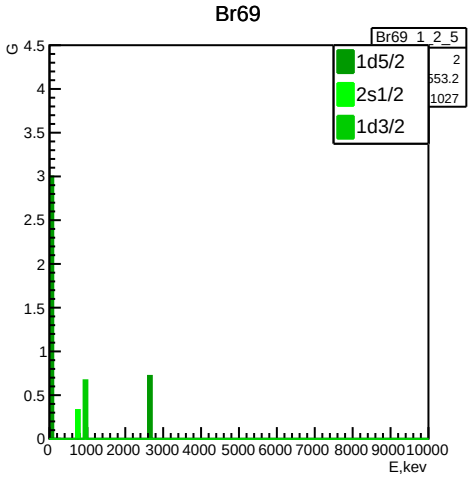
-13361.3 1d5/2 0.624167 1.00833

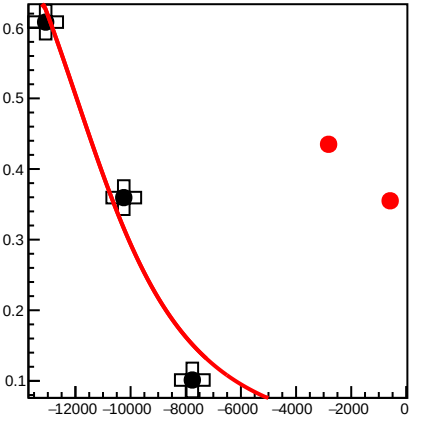
-10138.2 2s1/2 0.17 1.08

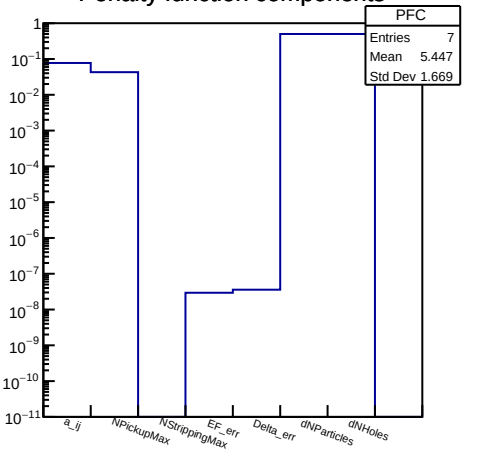
-10875.4 1d3/2 0.19625 1.5125

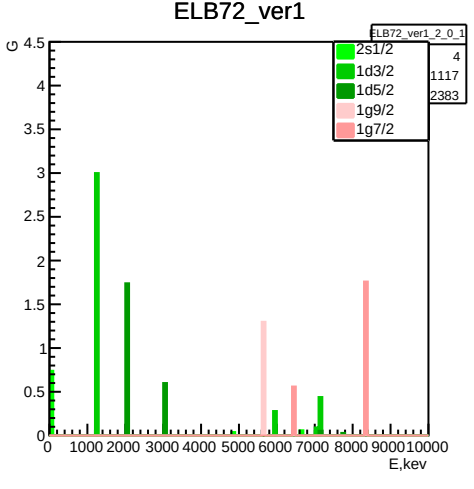
-2820.87 1g9/2 0.465 5.58294e-322

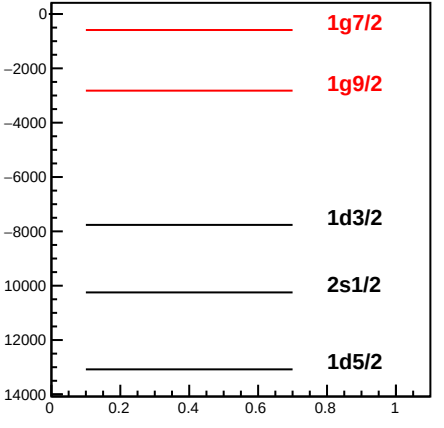
-2049.87 1g7/2 0.475 6.92655e-310











Experiment: Br69 (4) ELB72_ver1 (16)

neutron transfer

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

E_F: -11955 ± 497.012 keV

Δ: -4317.38 ± 1090.1 keV

penalty: 0.215453

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

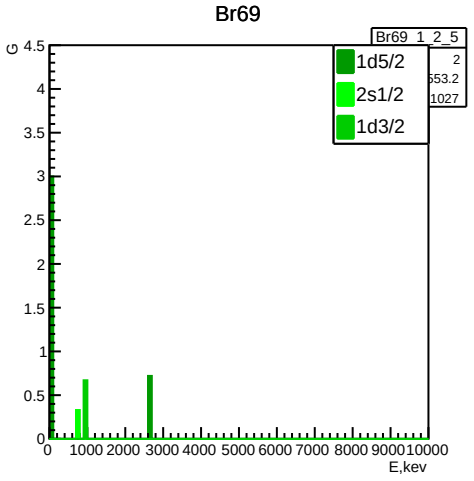
-13079.5 1d5/2 0.608 1.024

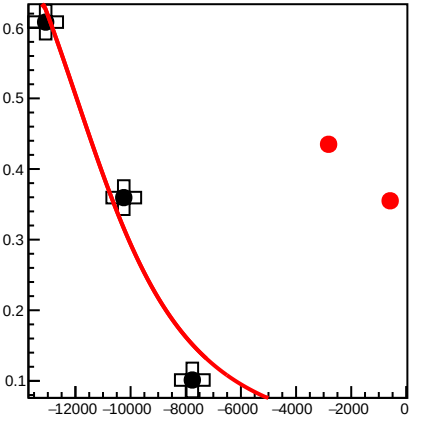
-10247.2 2s1/2 0.3595 0.611

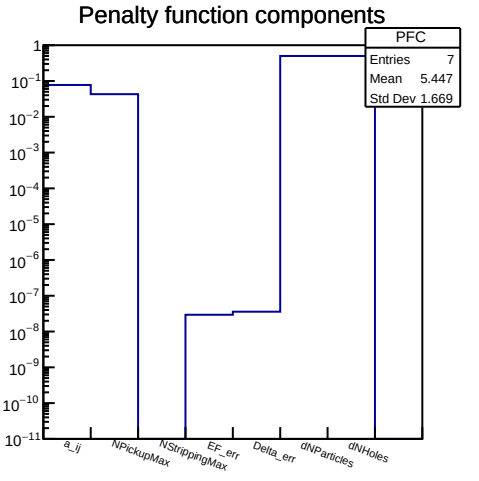
-7761.93 1d3/2 0.10125 1.1325

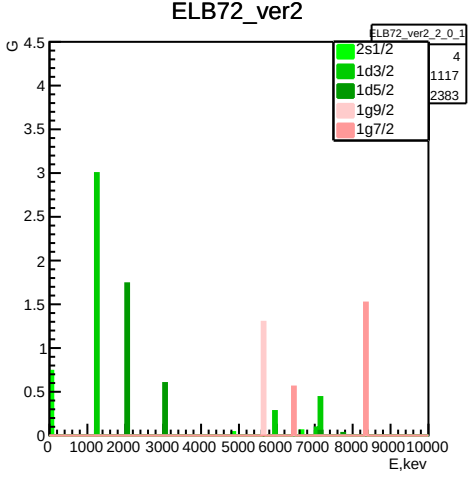
-2820.87 1g9/2 0.435 3.21143e-322

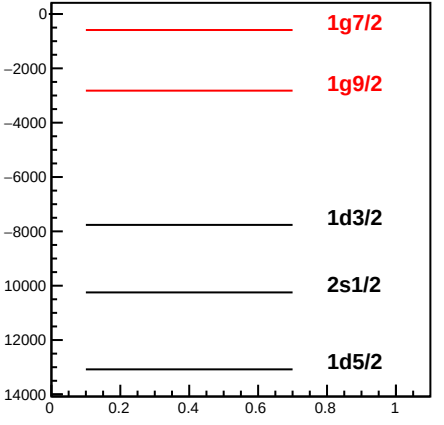
-588.767 1g7/2 0.355 0.0775











Experiment: Br69 (4) ELB72_ver2 (16)

neutron transfer

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

E_F: -11955 ± 497.012 keV

Δ: -4317.38 ± 1090.1 keV

penalty: 0.215453

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

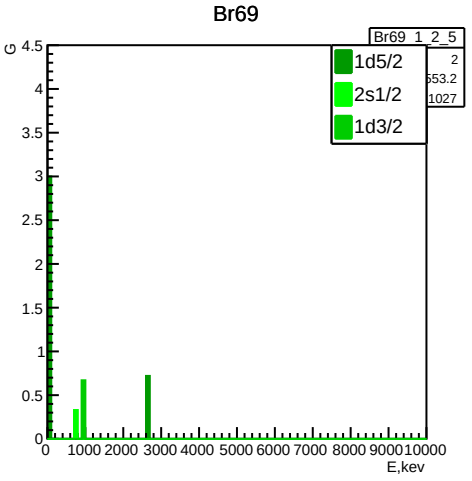
-13079.5 1d5/2 0.608 1.024

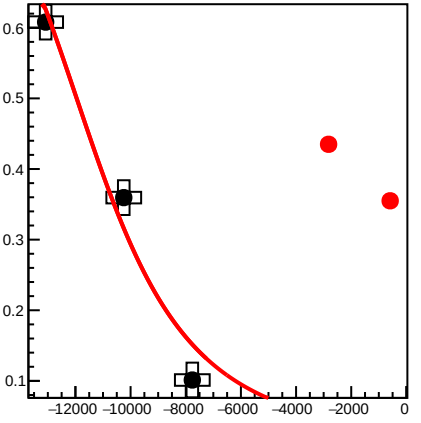
-10247.2 2s1/2 0.3595 0.611

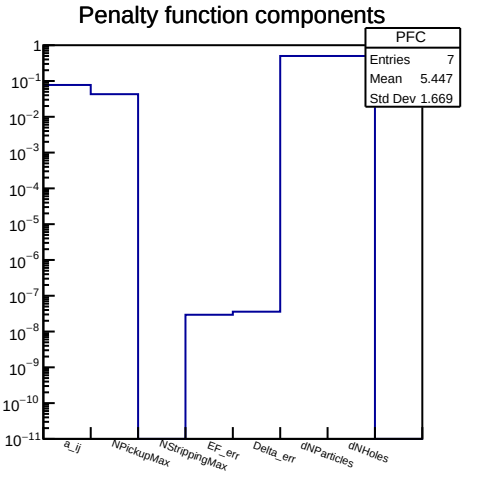
-7761.93 1d3/2 0.10125 1.1325

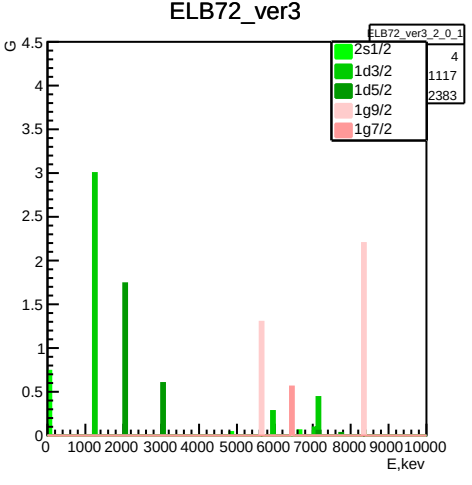
-2820.87 1g9/2 0.435 0

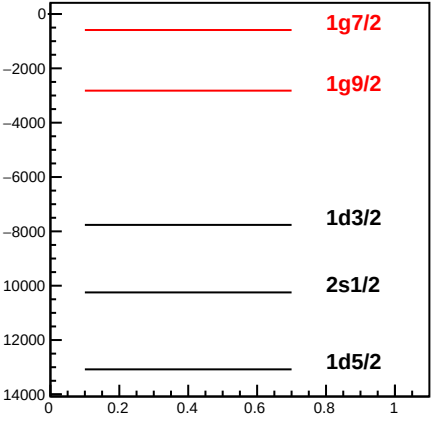
-588.767 1g7/2 0.355 2.37152e-322











Experiment: Br69 (4) ELB72_ver3 (16)

neutron transfer

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

E_F: -11955 ± 497.012 keV

Δ: -4317.38 ± 1090.1 keV

penalty: 0.215453

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

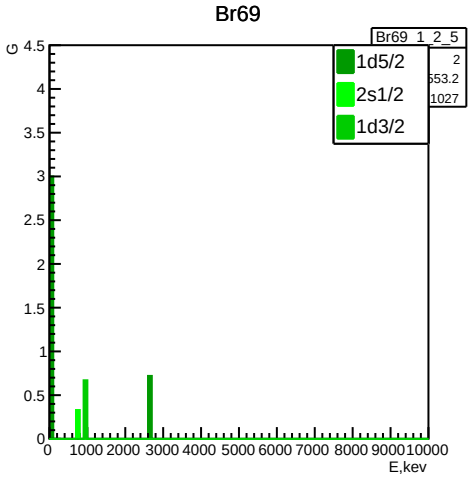
-13079.5 1d5/2 0.608 1.024

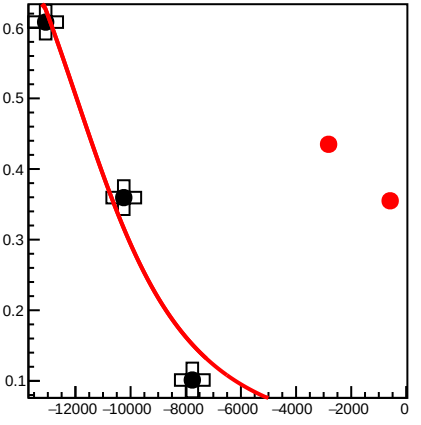
-10247.2 2s1/2 0.3595 0.611

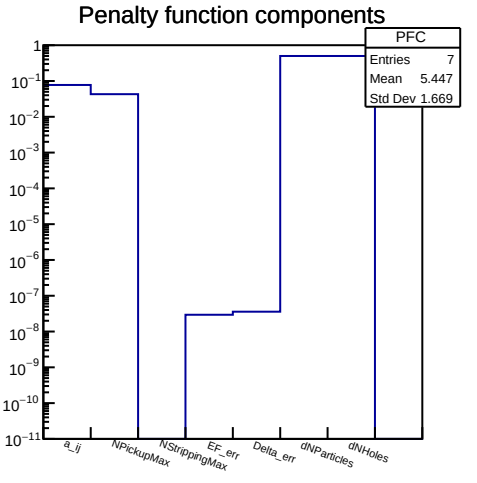
-7761.93 1d3/2 0.10125 1.1325

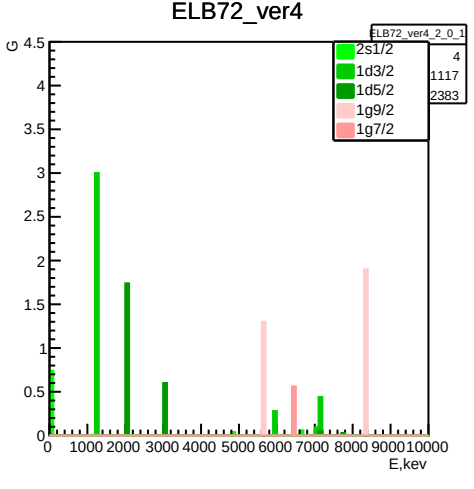
-2820.87 1g9/2 0.435 5.58294e-322

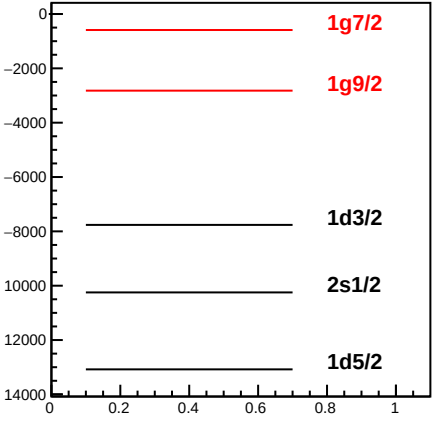
-588.767 1g7/2 0.355 6.92655e-310











Experiment: Br69 (4) ELB72_ver4 (16)

neutron transfer

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

E_F: -11955 ± 497.012 keV

Δ: -4317.38 ± 1090.1 keV

penalty: 0.215453

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

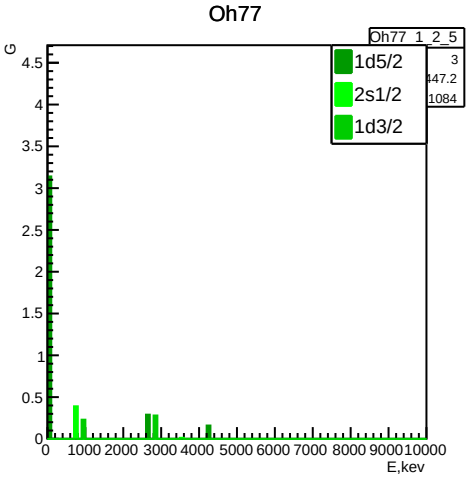
-13079.5 1d5/2 0.608 1.024

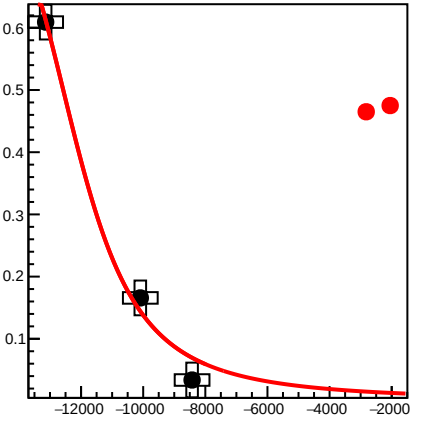
-10247.2 2s1/2 0.3595 0.611

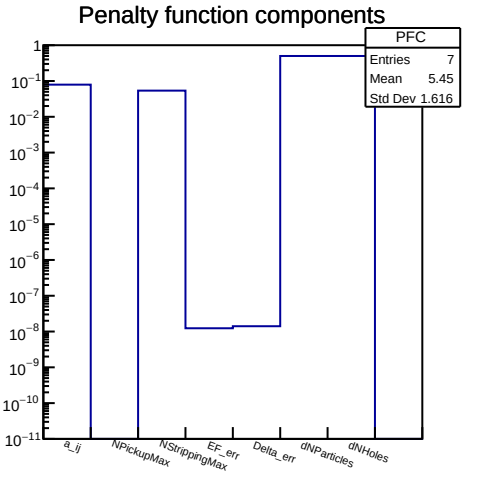
-7761.93 1d3/2 0.10125 1.1325

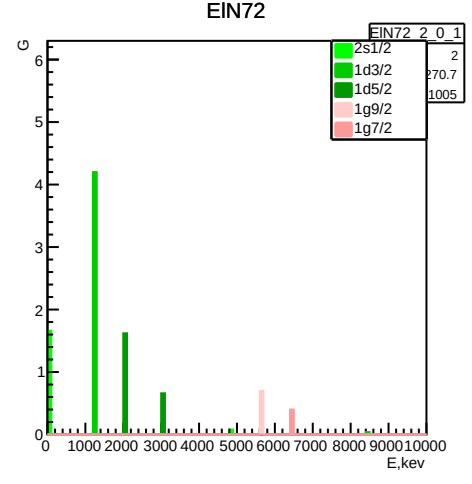
-2820.87 1g9/2 0.435 3.21143e-322

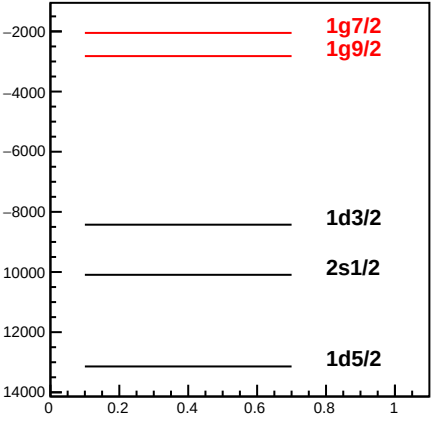
-588.767 1g7/2 0.355 0.0775











Experiment: Oh77 (7) EIN72 (8)

neutron transfer

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

E_F: -12574 ± 208.402 keV

Δ: 2451.33 ± 427.987 keV

penalty: 0.217876

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

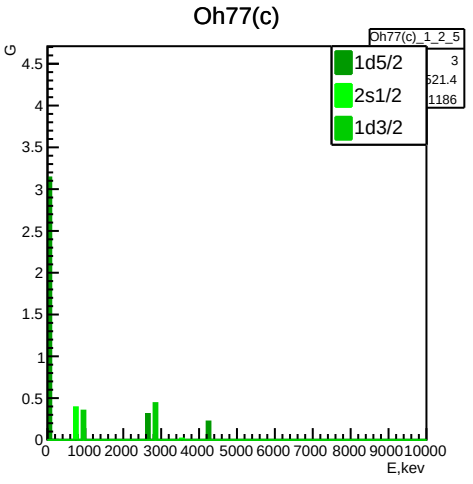
-13140.2 1d5/2 0.609167 0.978333

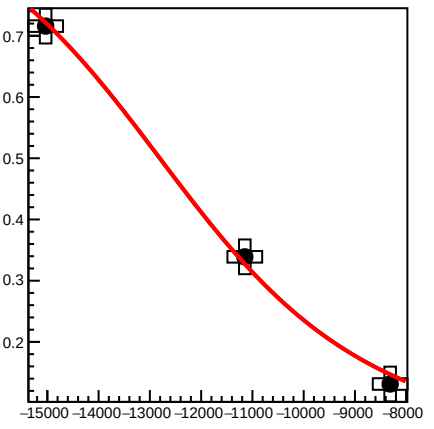
-10092.9 2s1/2 0.16575 1.0715

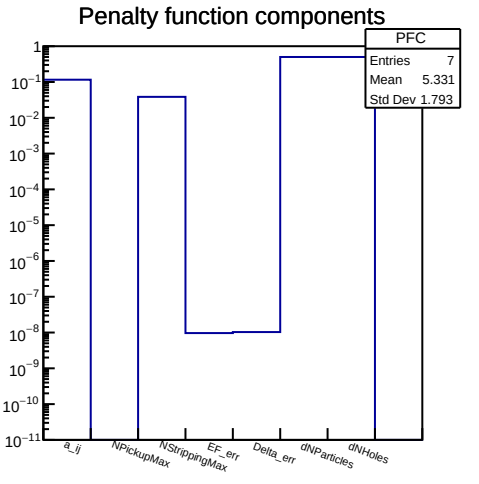
-8426.15 1d3/2 0.03375 1.1875

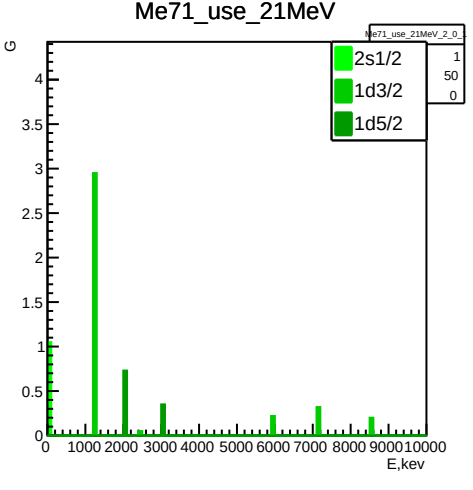
-2820.87 1g9/2 0.465 6.37345e-322

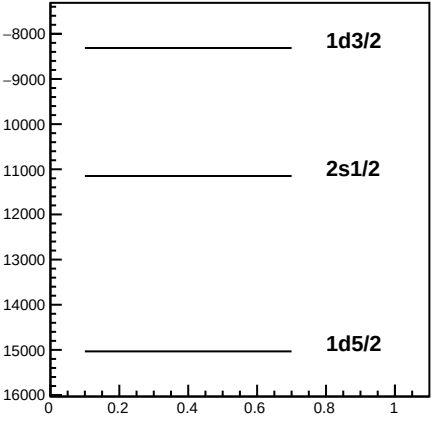
-2049.87 1g7/2 0.475 6.92655e-310











Experiment: Oh77(c) (7) Me71_use_21MeV (8

neutron transfer

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

E_F: -12806.6 ± 163.147 keV

Δ: -4505.8 ± 313.602 keV

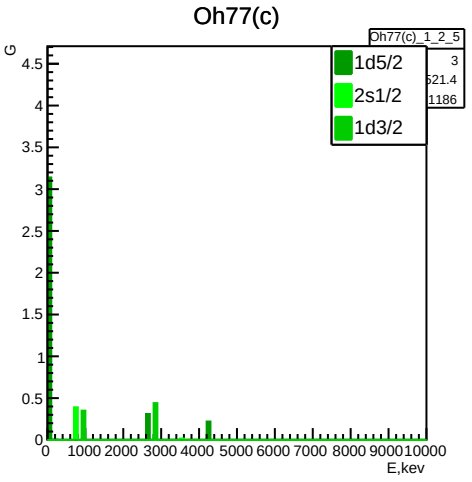
penalty: 0.222001

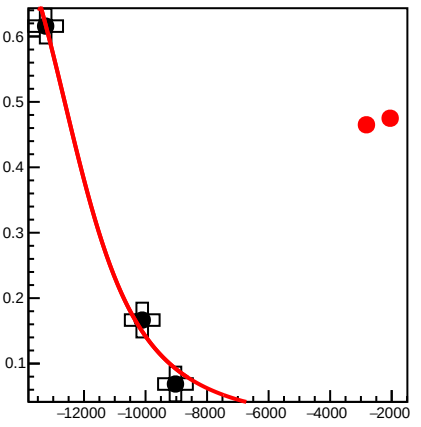
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

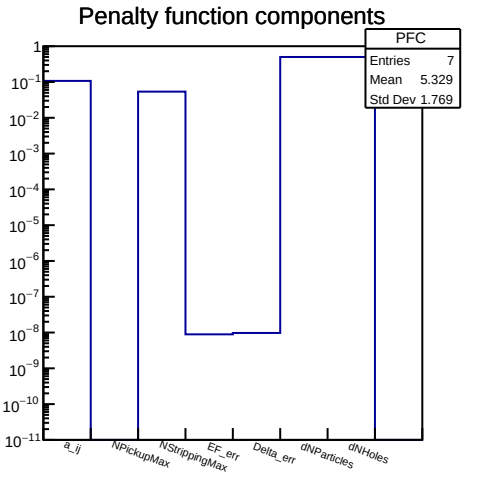
-15032.9 1d5/2 0.715833 0.791667

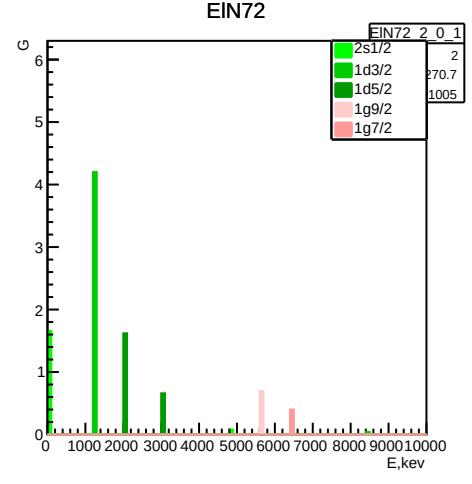
-11148.5 2s1/2 0.339 0.728

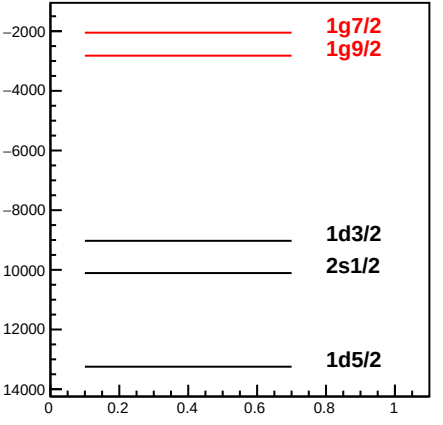
-8313.64 1d3/2 0.13125 1.1325











Experiment: Oh77(c) (7) EIN72 (8)

neutron transfer

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

E_F: -12627.3 ± 150.351 keV

Δ: -2557.07 ± 295.898 keV

penalty: 0.223314

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

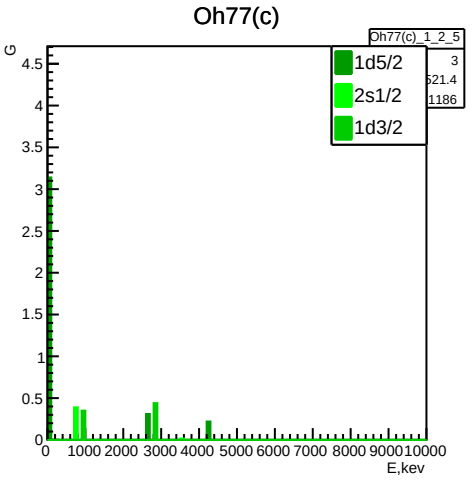
-13246.6 1d5/2 0.615833 0.991667

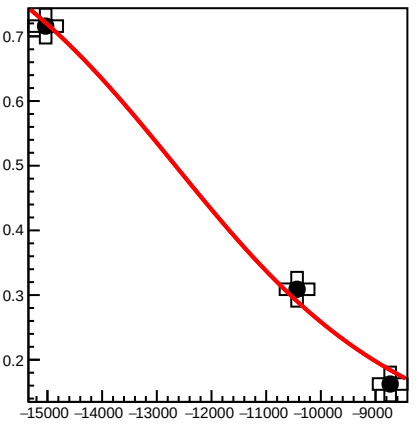
-10107.8 2s1/2 0.1665 1.073

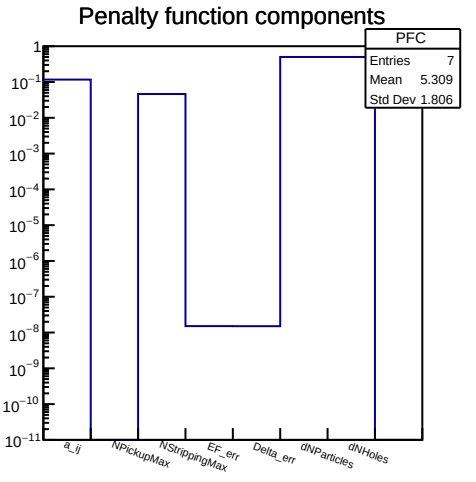
-9027.38 1d3/2 0.06875 1.2575

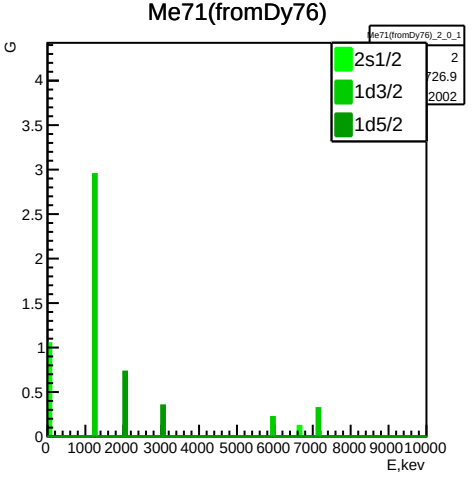
-2820.87 1g9/2 0.465 5.58294e-322

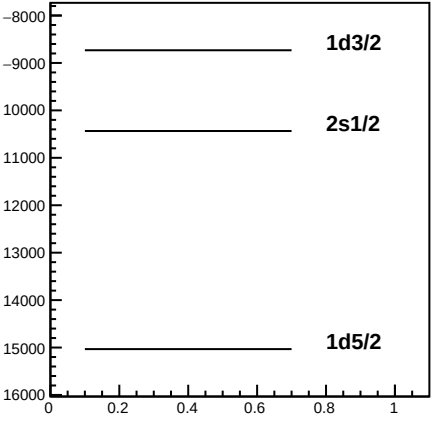
-2049.87 1g7/2 0.475 6.92655e-310











Experiment: Oh77(c) (7) Me71(fromDy76) (7)

neutron transfer

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

E_F: -12658.5 ± 255.356 keV

Δ: 4818.01 ± 457.624 keV

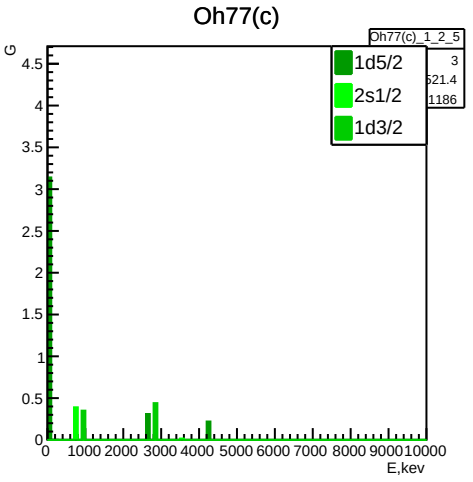
penalty: 0.223641

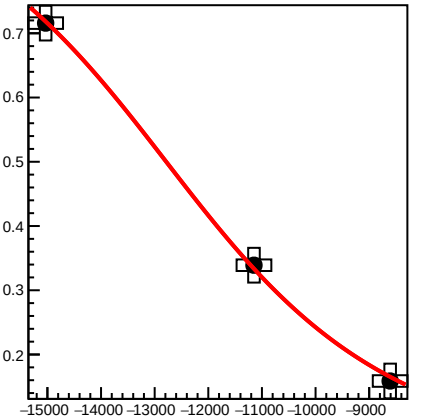
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

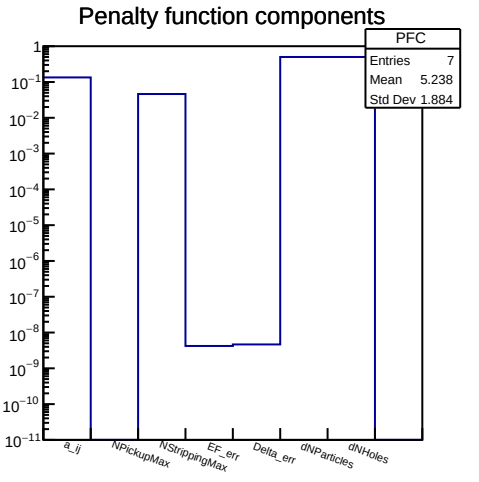
-15032.9 1d5/2 0.715833 0.791667

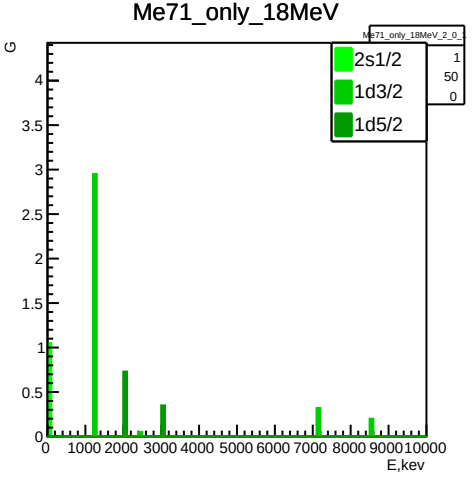
-10434.9 2s1/2 0.309 0.788

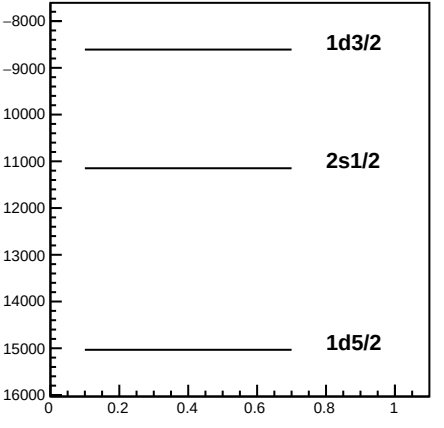
-8732.58 1d3/2 0.1625 1.07











Experiment: Oh77(c) (7) Me71_only_18MeV (

neutron transfer

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

E_F: -12784.6 ± 71.1336 keV

Δ: 4633.2 ± 141.329 keV

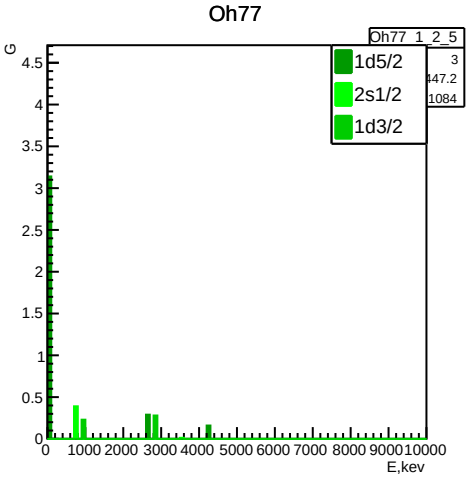
penalty: 0.227006

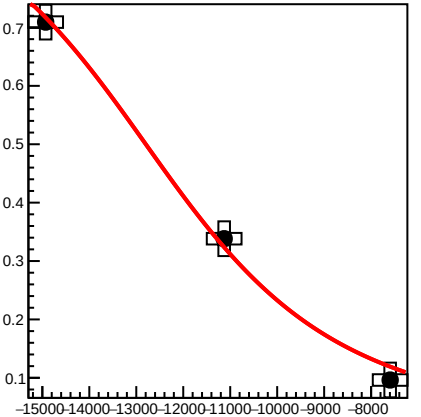
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

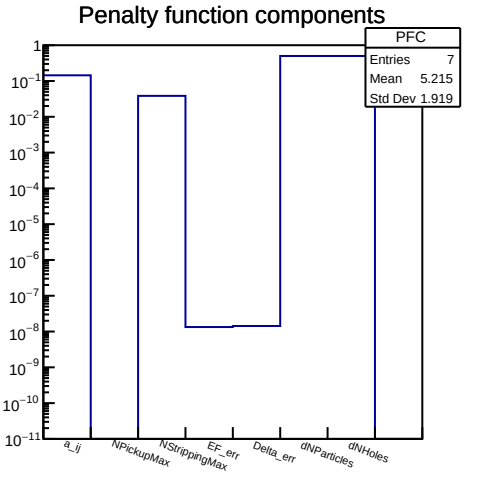
-15032.9 1d5/2 0.715833 0.791667

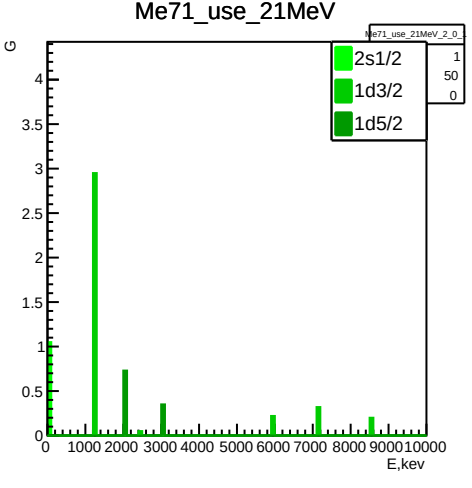
-11148.5 2s1/2 0.339 0.728

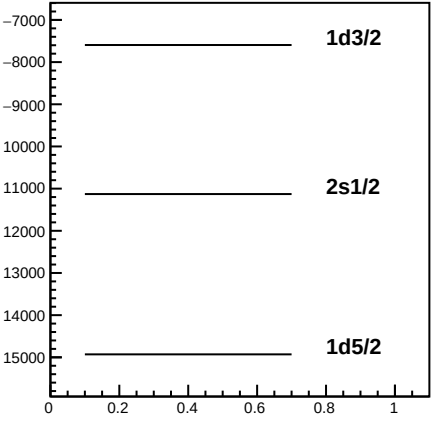
-8609.08 1d3/2 0.15875 1.0775











Experiment: Oh77 (7) Me71_use_21MeV (8)

neutron transfer

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

E_F: -12797.4 ± 225.786 keV

Δ: -4425.21 ± 434.349 keV

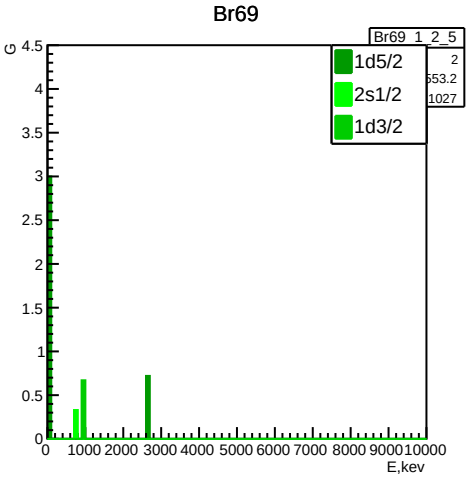
penalty: 0.227439

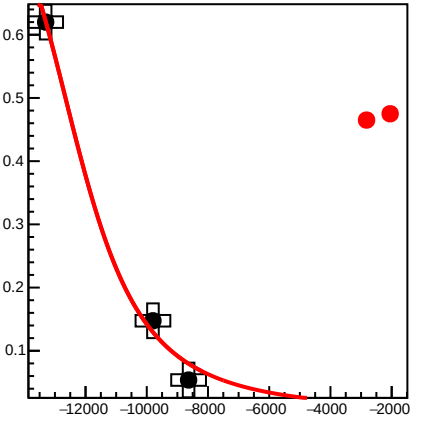
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

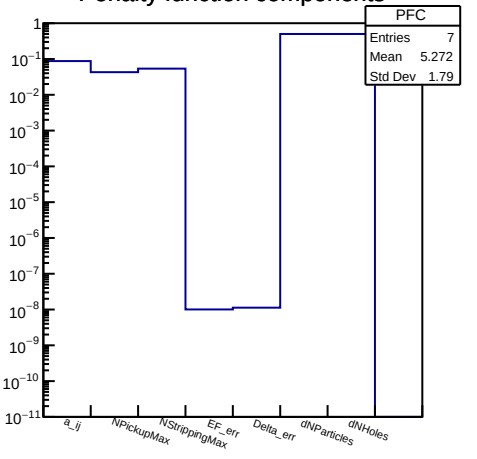
-14929.7 1d5/2 0.709167 0.778333

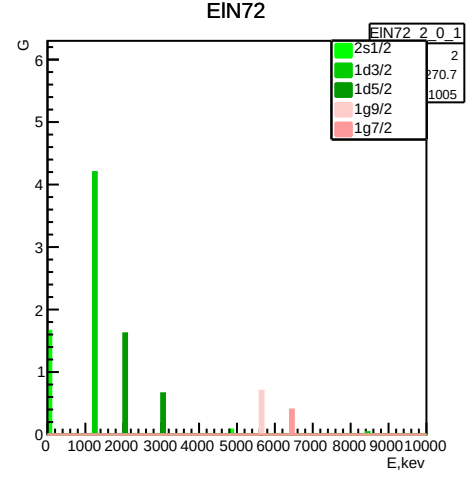
-11128.7 2s1/2 0.33825 0.7265

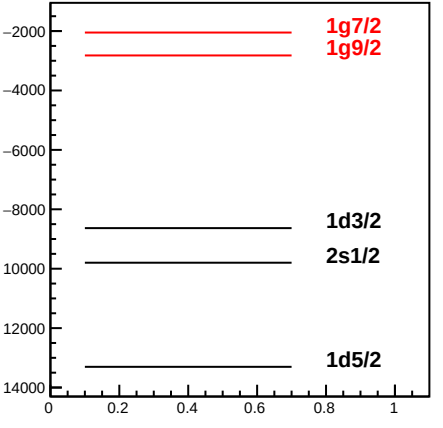
-7594.66 1d3/2 0.09625 1.0625











Experiment: Br69 (4) EIN72 (8)

neutron transfer

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

E_F: -12654.7 ± 169.889 keV

Δ: 2588.12 ± 342.773 keV

penalty: 0.227731

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

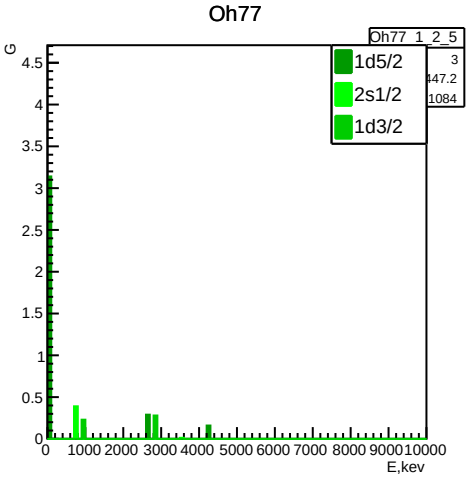
-13303 1d5/2 0.62 1

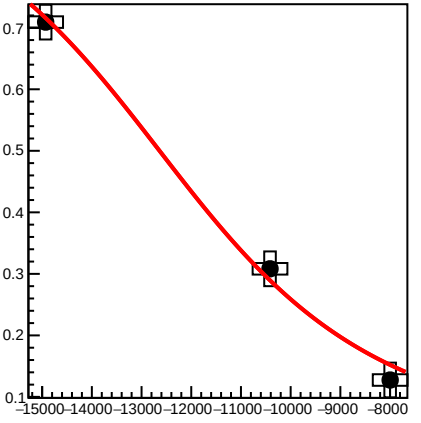
-9798.17 2s1/2 0.1475 1.035

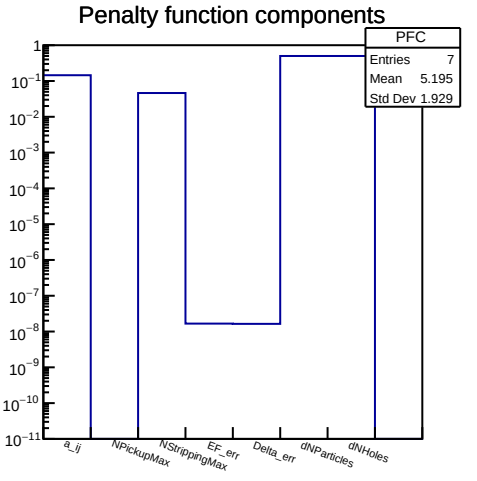
-8633.7 1d3/2 0.05375 1.2275

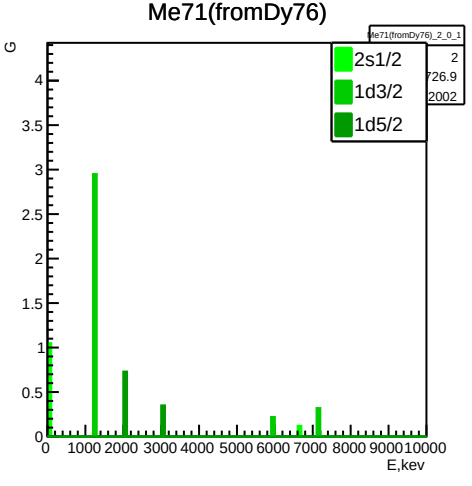
-2820.87 1g9/2 0.465 4.94066e-324

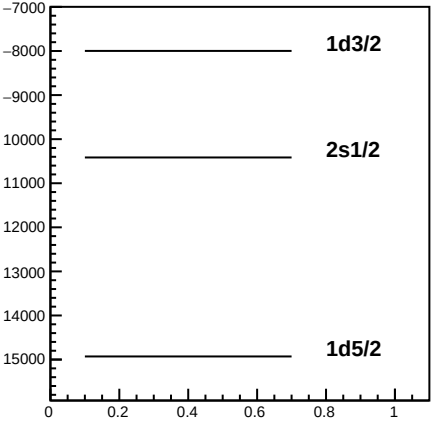
-2049.87 1g7/2 0.475 2.37152e-322











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

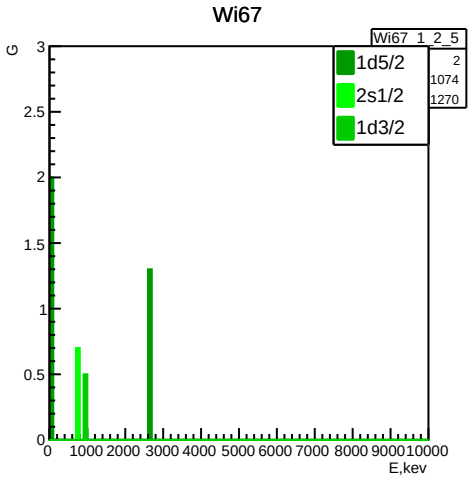
penalty: 0.229079

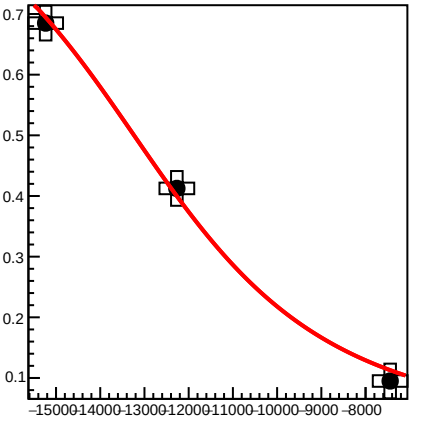
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

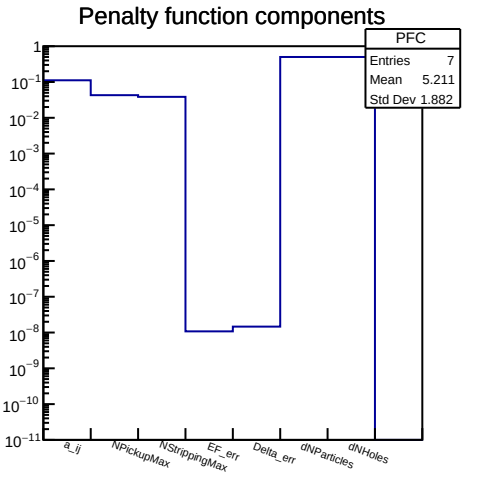
-14929.7 1d5/2 0.709167 0.778333

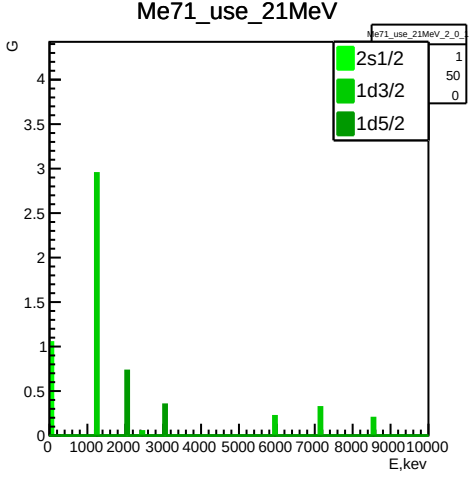
-10415.3 2s1/2 0.30825 0.7865

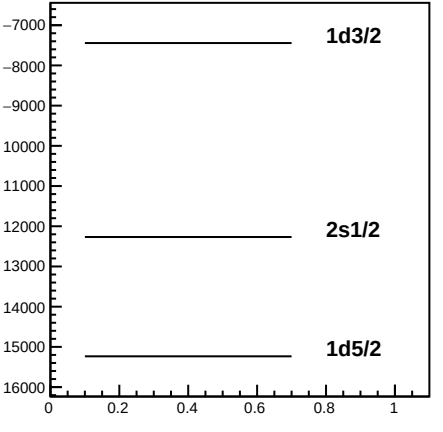
-7997.98 1d3/2 0.1275 1











Experiment: Wi67 (4) Me71_use_21MeV (8)

neutron transfer

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

E_F: -13235.9 ± 182.107 keV

Δ: -4735.19 ± 444.836 keV

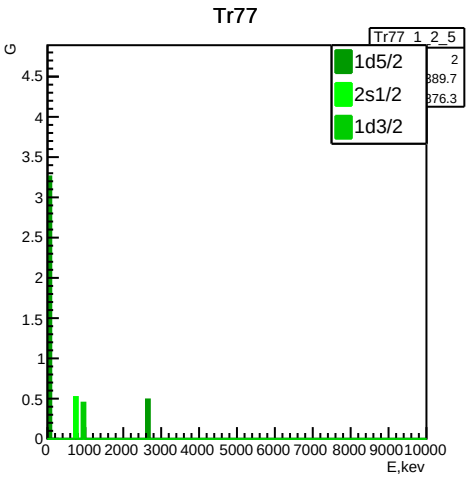
penalty: 0.22942

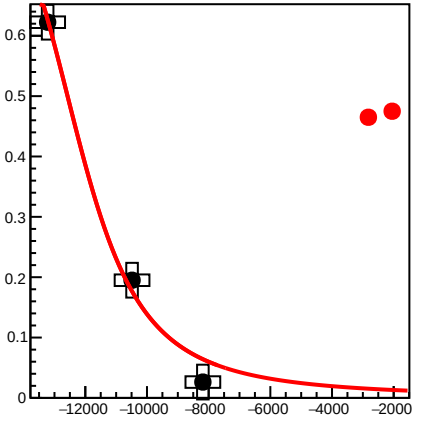
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

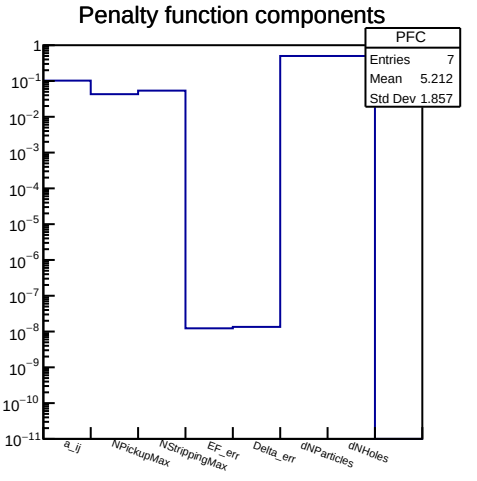
-15234.6 1d5/2 0.685 0.73

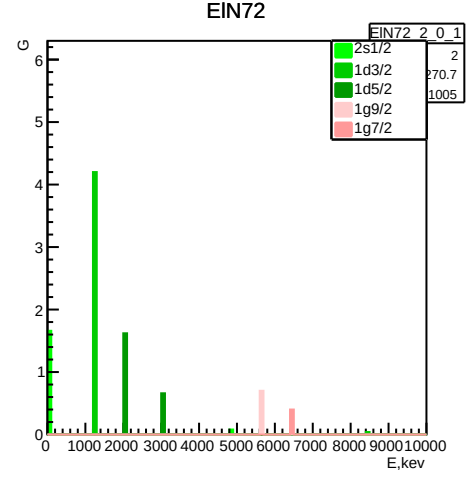
-12267.5 2s1/2 0.4125 0.875

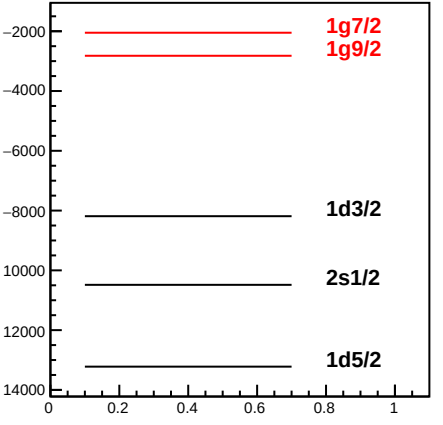
-7443.74 1d3/2 0.095 1.06











Experiment: Tr77 (4) EIN72 (8)

neutron transfer

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

E_F: -12575.7 ± 207.622 keV

Δ: -2466.03 ± 409.791 keV

penalty: 0.230616

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

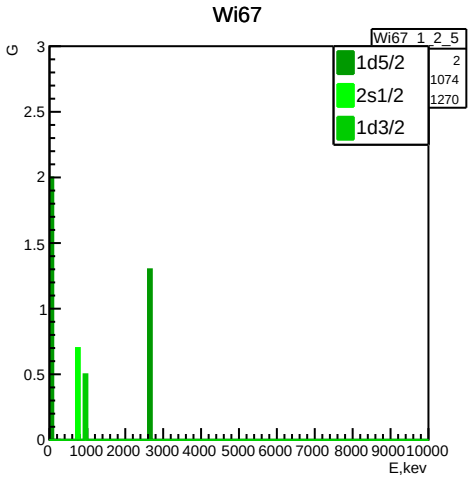
-13221.3 1d5/2 0.6225 1.005

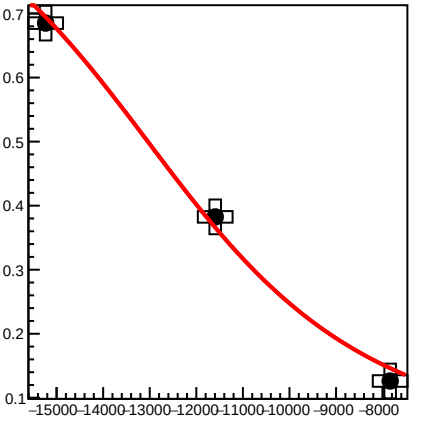
-10484.3 2s1/2 0.195 1.13

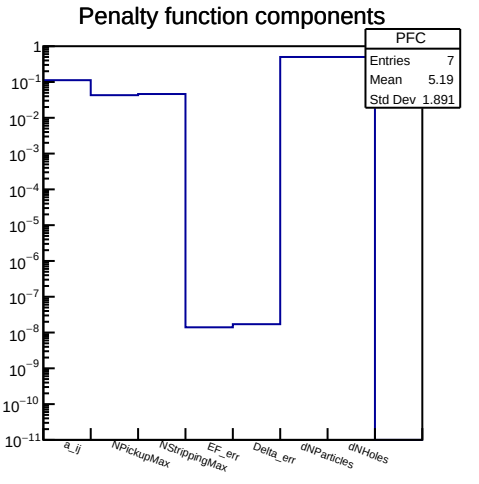
-8187.97 1d3/2 0.02625 1.1725

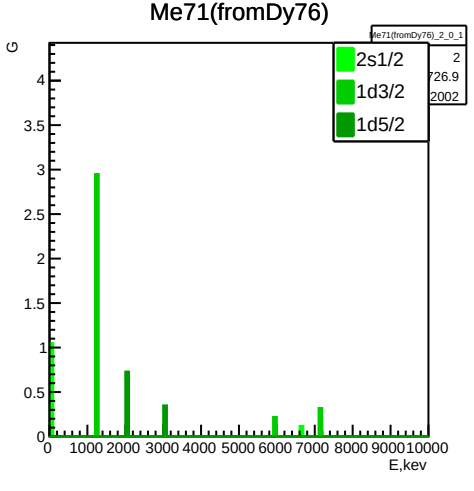
-2820.87 1g9/2 0.465 4.94066e-324

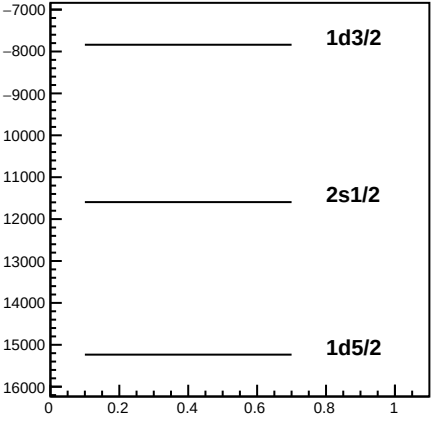
-2049.87 1g7/2 0.475 2.37152e-322











Experiment: Wi67 (4) Me71(fromDy76) (7)

neutron transfer

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

E_F: -13040.5 ± 236.376 keV

Δ: 5196.74 ± 520.45 keV

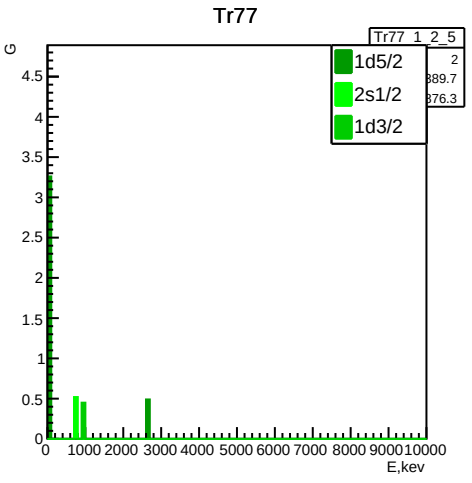
penalty: 0.23106

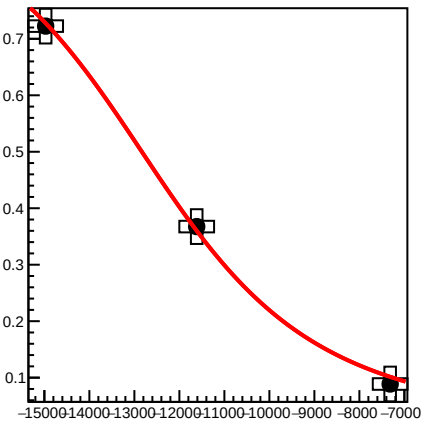
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

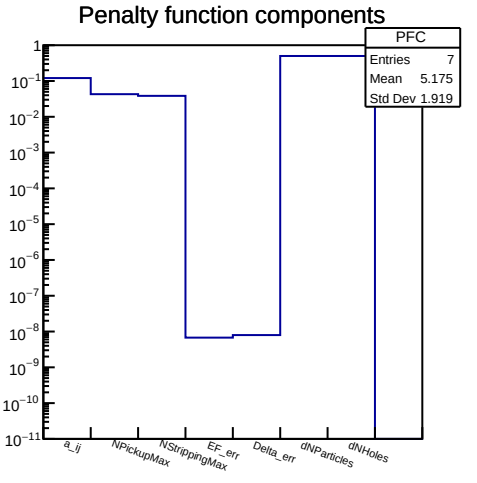
-15234.6 1d5/2 0.685 0.73

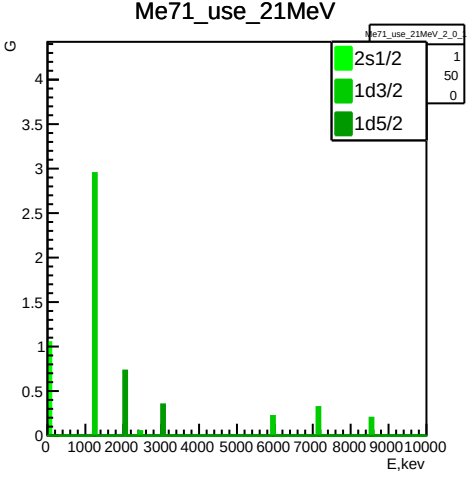
-11594.3 2s1/2 0.3825 0.935

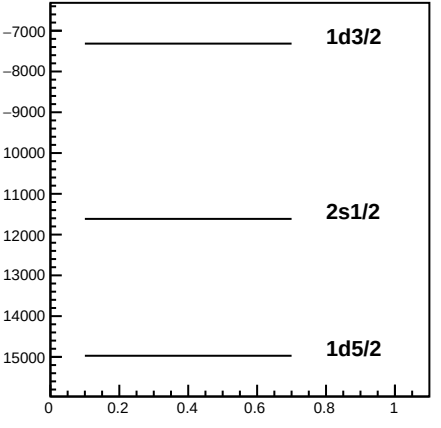
-7838.62 1d3/2 0.12625 0.9975











Experiment: Tr77 (4) Me71_use_21MeV (8)

neutron transfer

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

E_F: -12833.3 ± 114.106 keV

Δ: 4180.34 ± 242.208 keV

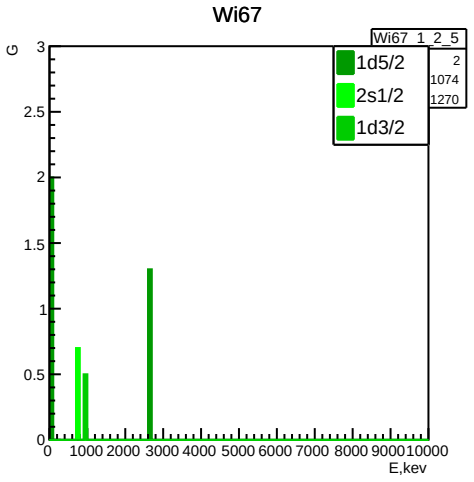
penalty: 0.231183

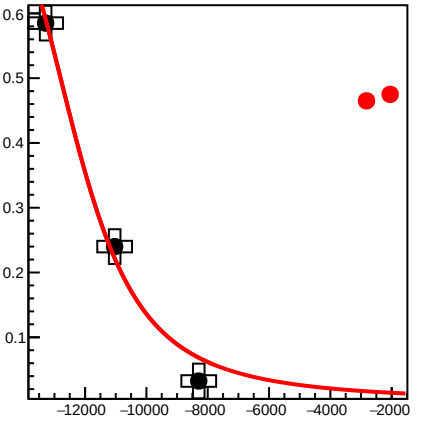
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

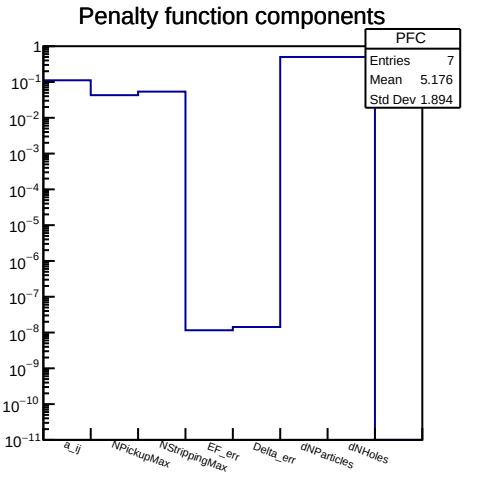
-14971.7 1d5/2 0.7225 0.805

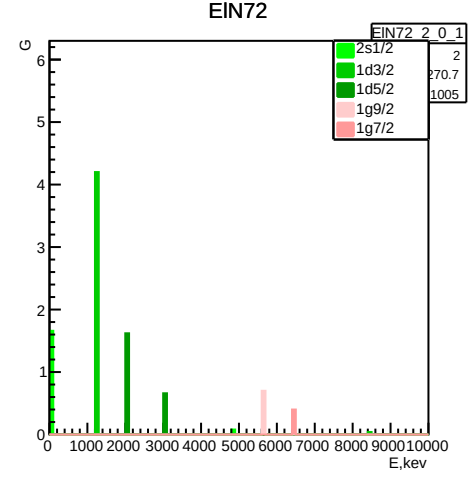
-11614.9 2s1/2 0.3675 0.785

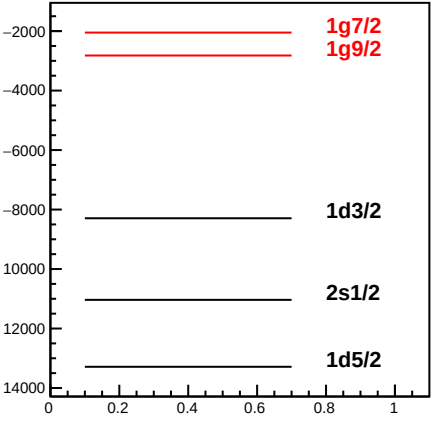
-7316.14 1d3/2 0.08875 1.0475











Experiment: Wi67 (4) EIN72 (8)

neutron transfer

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

E_F: -12798.7 ± 195.56 keV

Δ: -2637.09 ± 433.998 keV

penalty: 0.232379

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

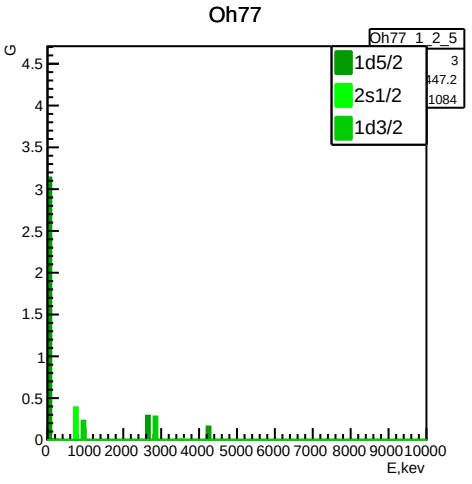
-13286.5 1d5/2 0.585 0.93

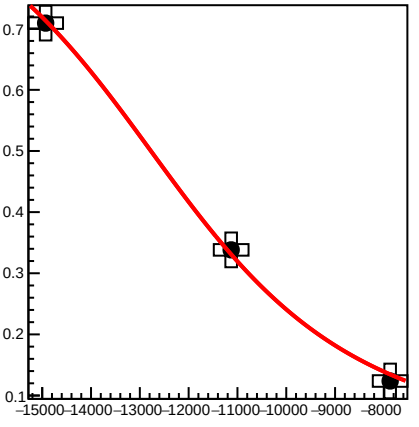
-11035.8 2s1/2 0.24 1.22

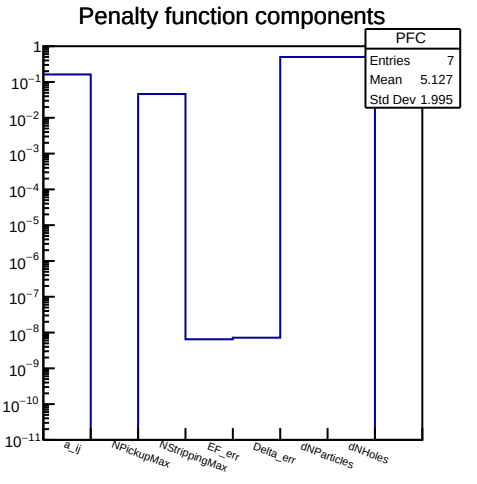
-8292.9 1d3/2 0.0325 1.185

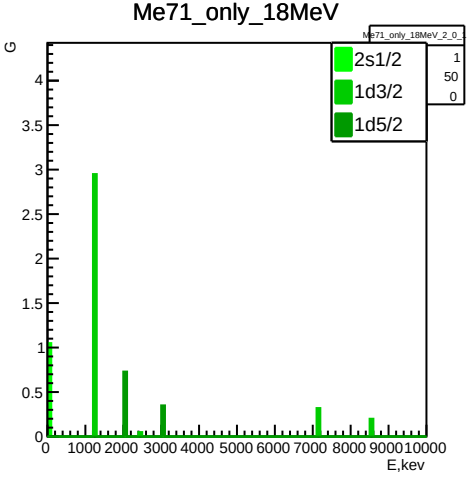
-2820.87 1g9/2 0.465 1.60074e-317

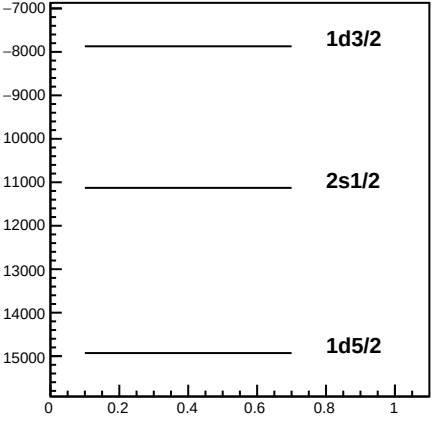
-2049.87 1g7/2 0.475 2.37152e-322











Experiment: Oh77 (7) Me71_only_18MeV (7)

neutron transfer

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

E_F: -12773.1 ± 109.348 keV

Δ: 4576.57 ± 218.128 keV

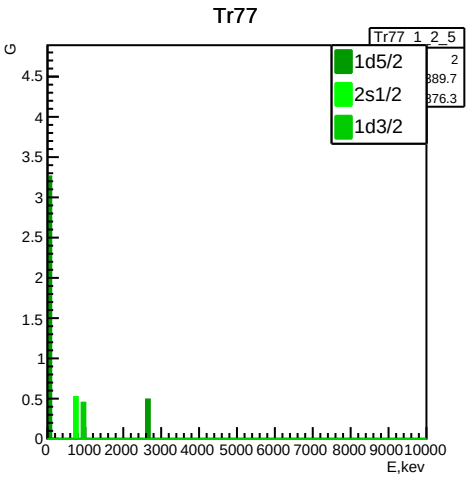
penalty: 0.232444

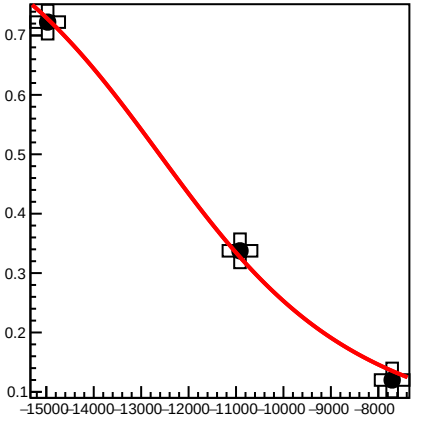
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

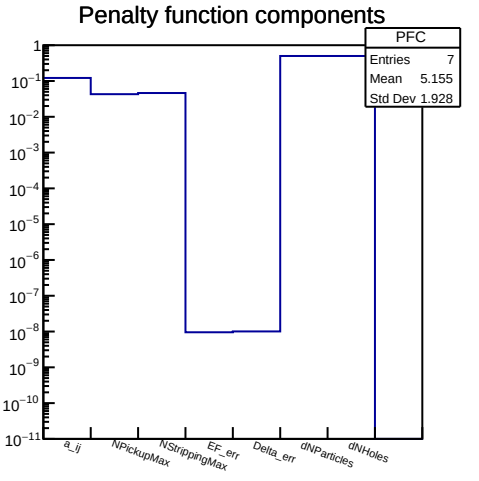
-14929.7 1d5/2 0.709167 0.778333

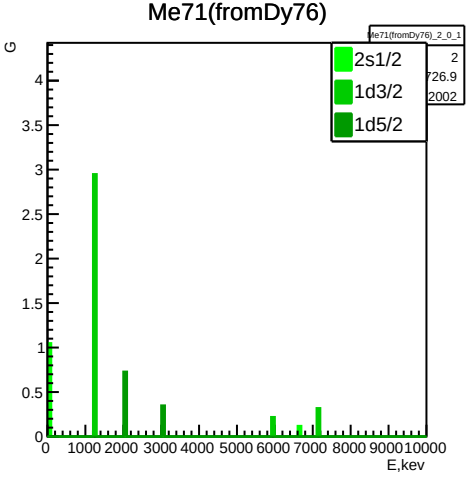
-11128.7 2s1/2 0.33825 0.7265

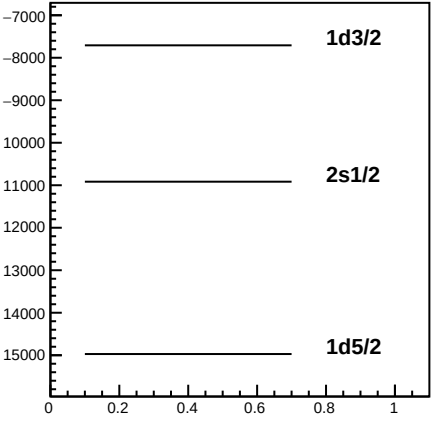
-7871.37 1d3/2 0.12375 1.0075











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

neutron transfer

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

E_F: -12615 ± 161.076 keV

Δ: -4603.25 ± 306.229 keV

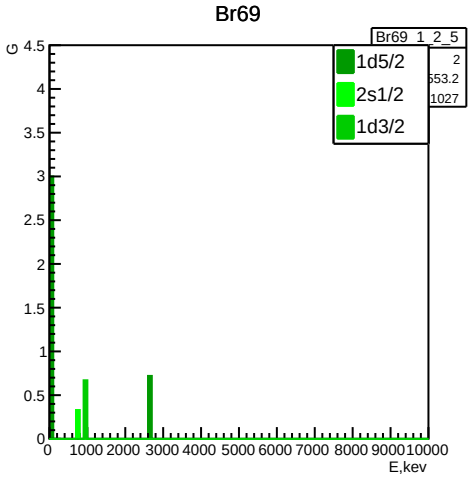
penalty: 0.232823

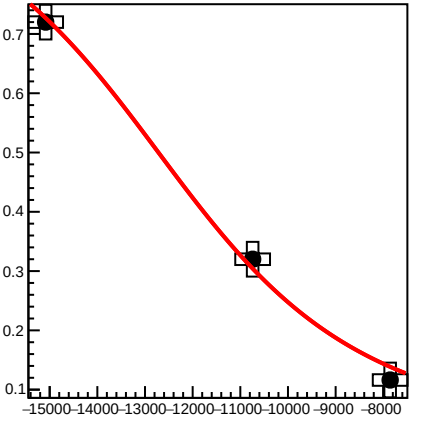
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

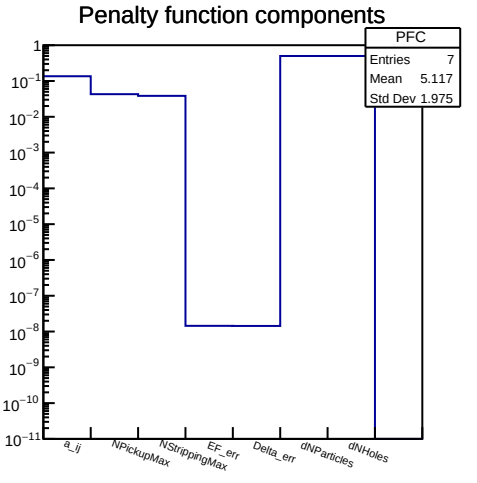
-14971.7 1d5/2 0.7225 0.805

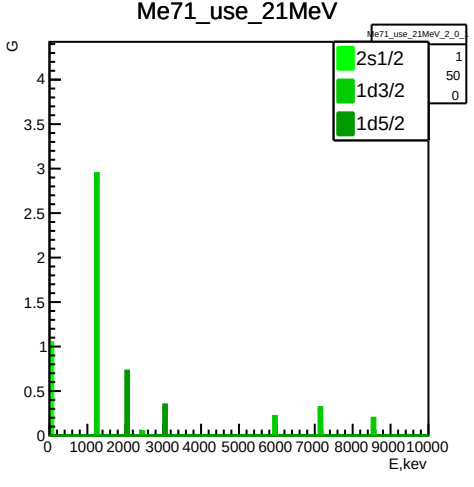
-10916.4 2s1/2 0.3375 0.845

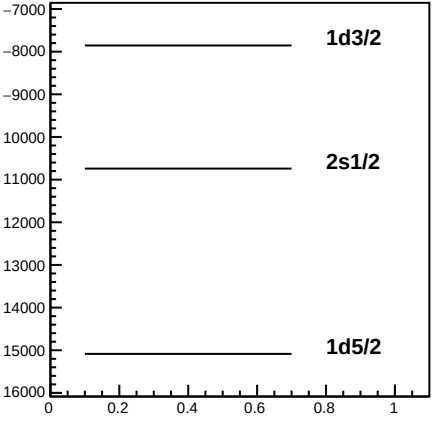
-7707.94 1d3/2 0.12 0.985











Experiment: Br69 (4) Me71_use_21MeV (8)

neutron transfer

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

E_F: -12717.5 ± 243.623 keV

Δ: 4645.81 ± 435.642 keV

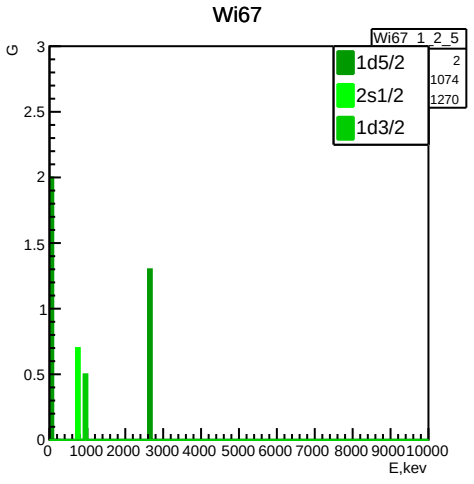
penalty: 0.234068

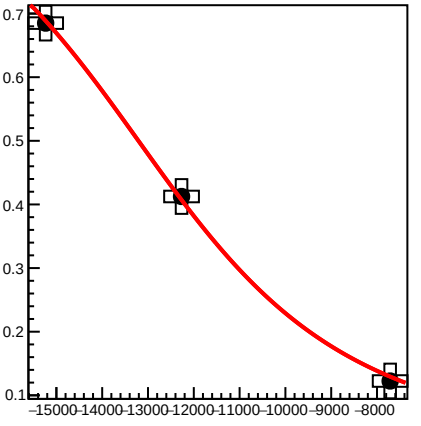
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

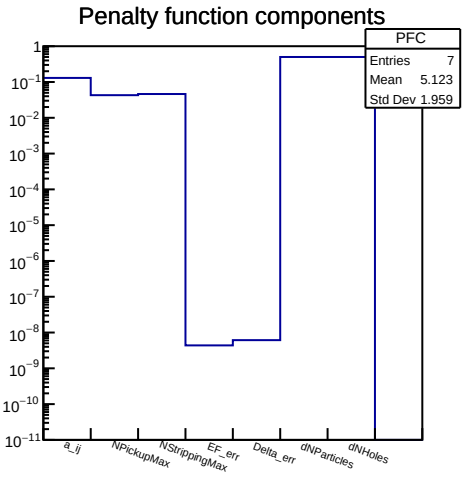
-15084.8 1d5/2 0.72 0.8

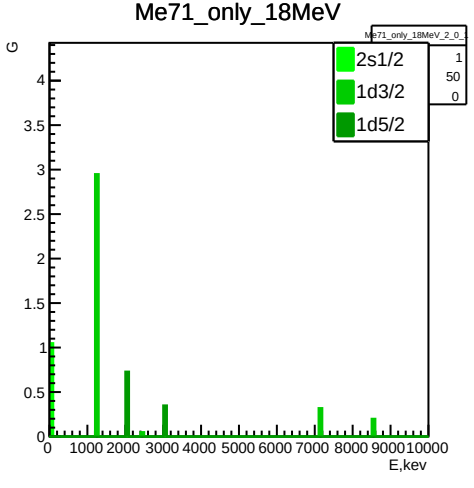
-10741.4 2s1/2 0.32 0.69

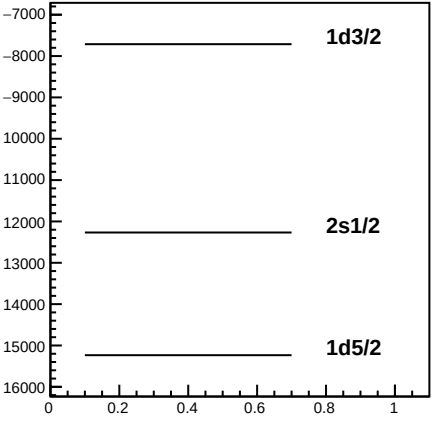
-7855.91 1d3/2 0.11625 1.1025











Experiment: Wi67 (4) Me71_only_18MeV (7)

neutron transfer

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

E_F: -13208.6 ± 73.8625 keV

Δ: 4977.08 ± 186.409 keV

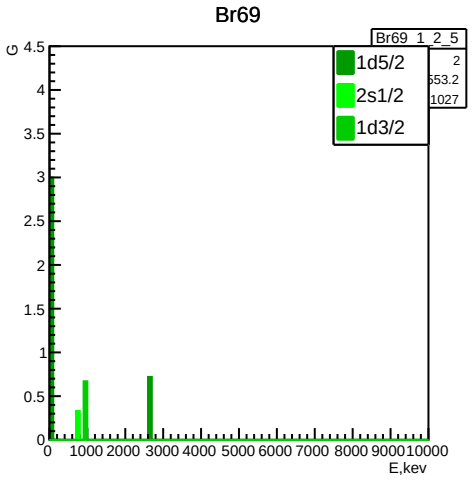
penalty: 0.234425

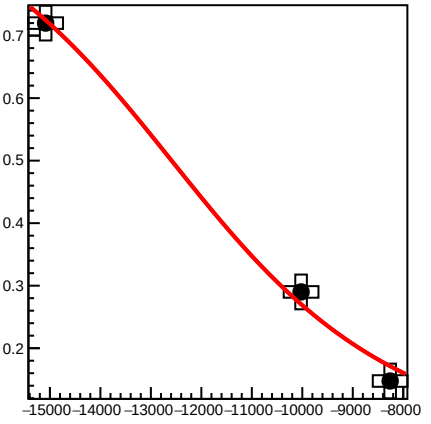
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

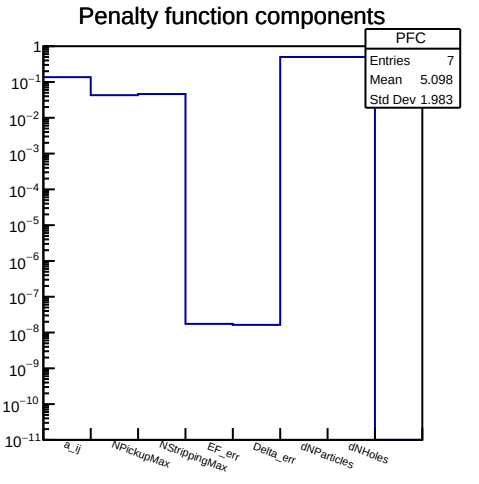
-15234.6 1d5/2 0.685 0.73

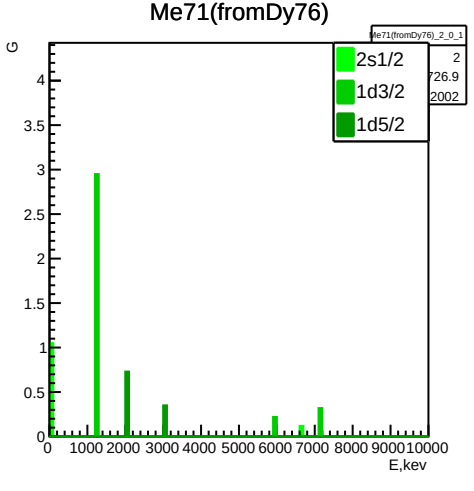
-12267.5 2s1/2 0.4125 0.875

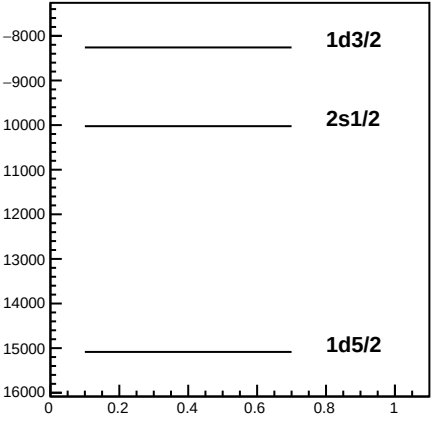
-7712.87 1d3/2 0.1225 1.005











Experiment: Br69 (4) Me71(fromDy76) (7)

neutron transfer

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

E_F: -12588.8 ± 294.784 keV

Δ: -4961.08 ± 497.603 keV

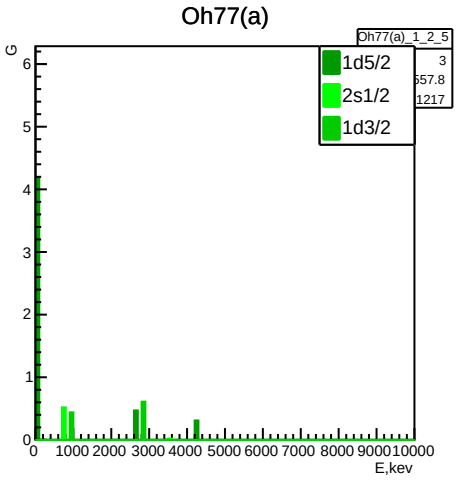
penalty: 0.235707

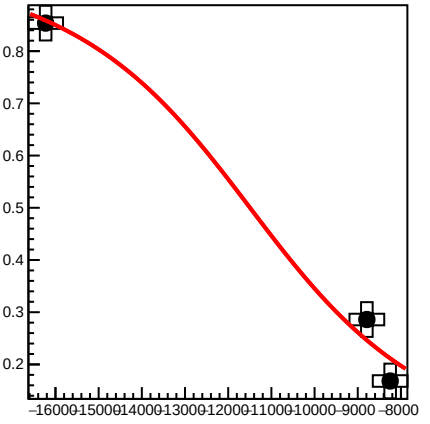
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

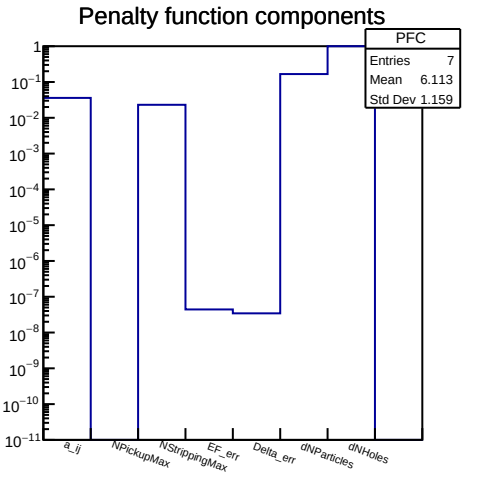
-15084.8 1d5/2 0.72 0.8

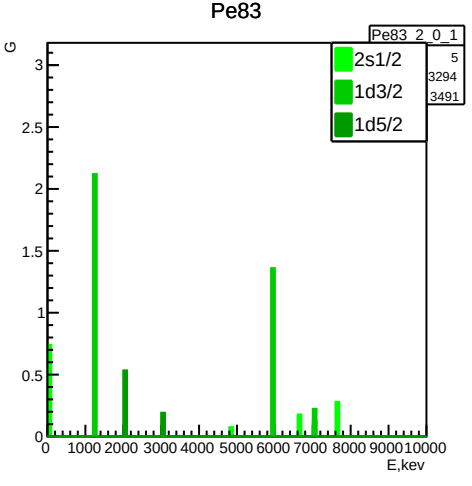
-10024.3 2s1/2 0.29 0.75

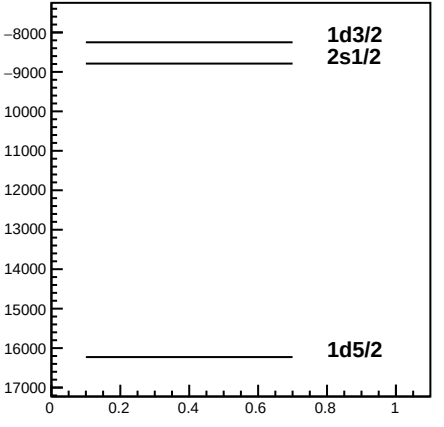
-8259.43 1d3/2 0.1475 1.04











Experiment: Oh77(a) (7) Pe83 (10)

neutron transfer

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

E_F: -11494.4 ± 745.987 keV

Δ: 4596.69 ± 1045.28 keV

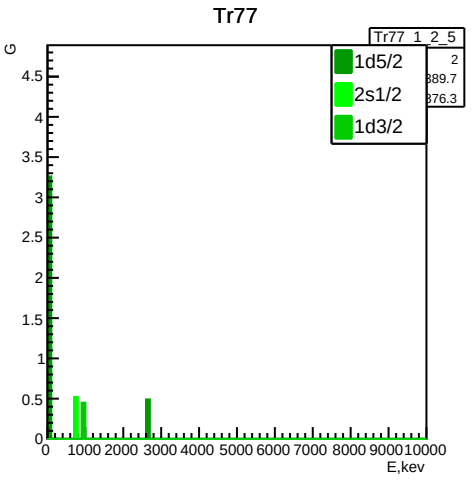
penalty: 0.235709

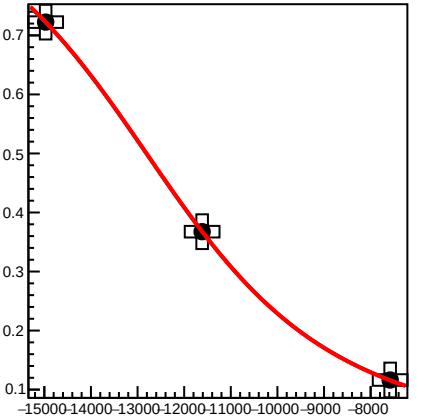
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

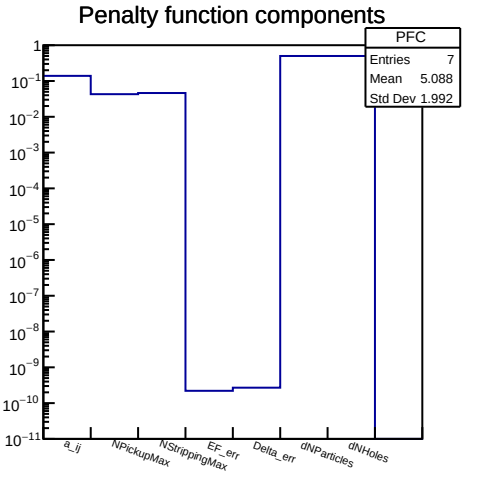
-16227.3 1d5/2 0.853667 0.949333

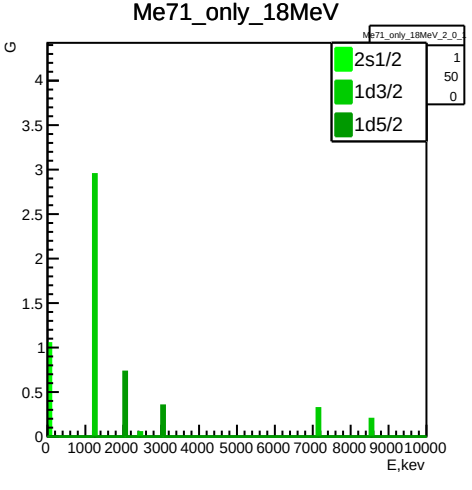
-8789.27 2s1/2 0.286 0.97

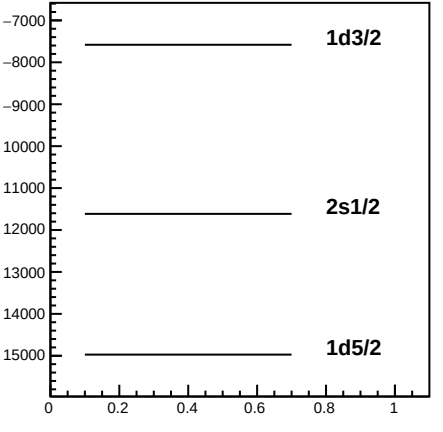
-8249.75 1d3/2 0.16825 1.1885











Experiment: Tr77 (4) Me71_only_18MeV (7)

neutron transfer

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

E_F: -12809.4 ± 3.72686 keV

Δ: -4355.19 ± 8.20771 keV

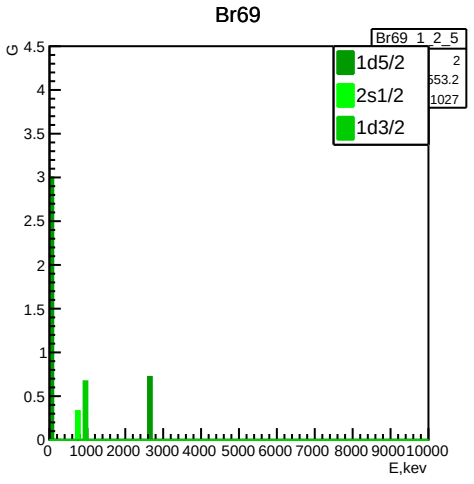
penalty: 0.236188

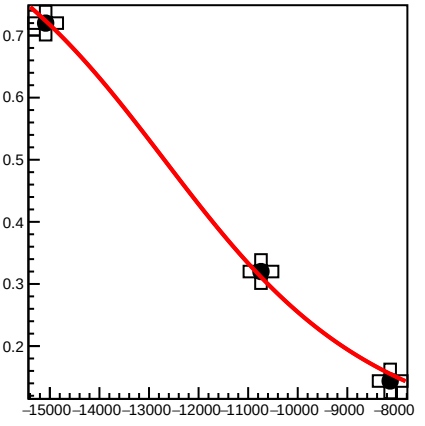
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

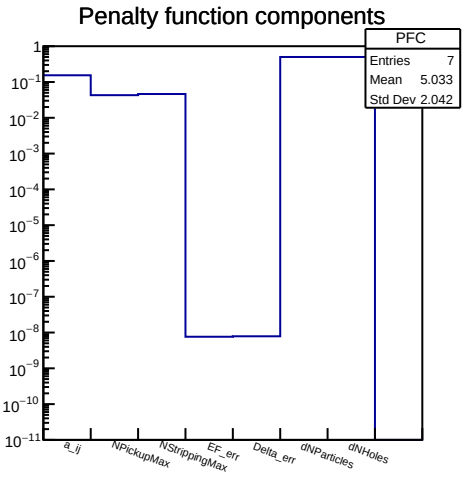
-14971.7 1d5/2 0.7225 0.805

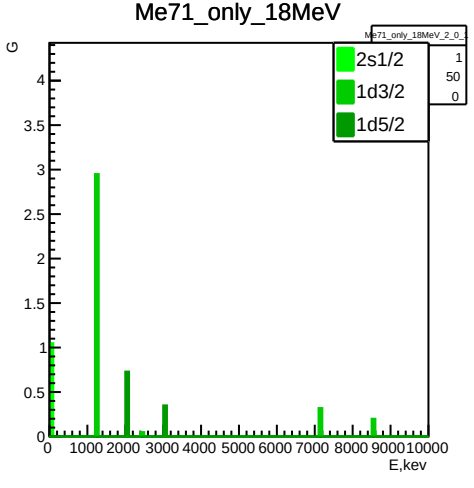
-11614.9 2s1/2 0.3675 0.785

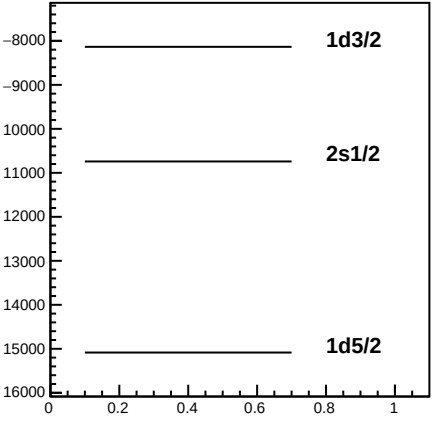
-7581.6 1d3/2 0.11625 0.9925











Experiment: Br69 (4) Me71_only_18MeV (7)

neutron transfer

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

E_F: -12692 ± 128.776 keV

Δ: -4784.6 ± 238.945 keV

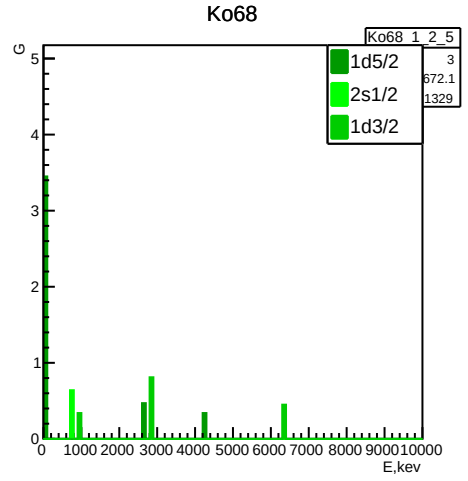
penalty: 0.239073

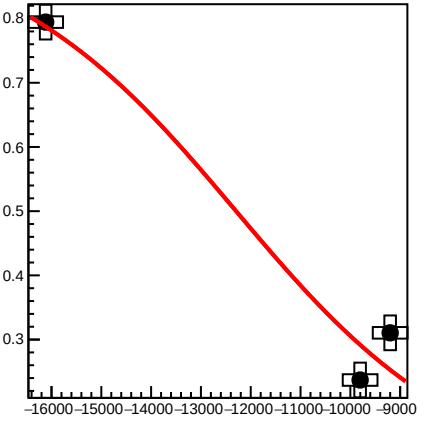
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

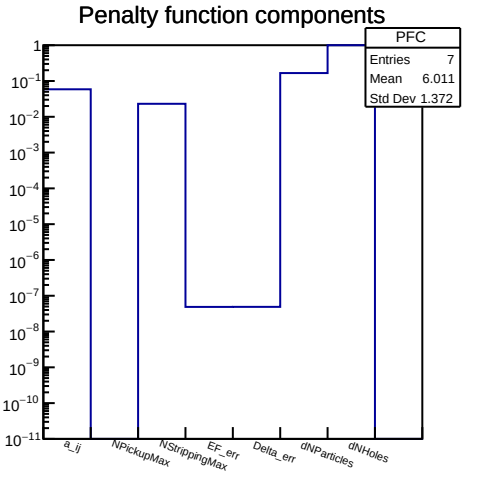
-15084.8 1d5/2 0.72 0.8

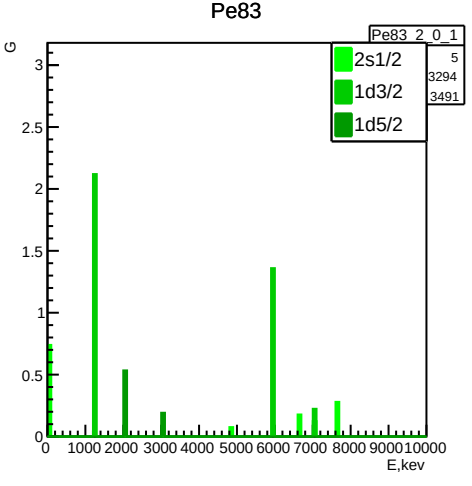
-10741.4 2s1/2 0.32 0.69

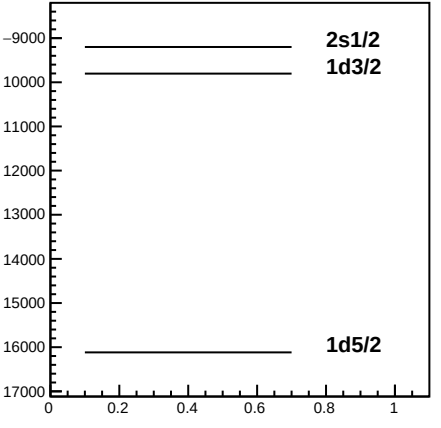
-8135.77 1d3/2 0.14375 1.0475











Experiment: Ko68 (7) Pe83 (10)

neutron transfer

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

E_F: -12293.4 ± 823.196 keV

Δ: -5439.34 ± 1487 keV

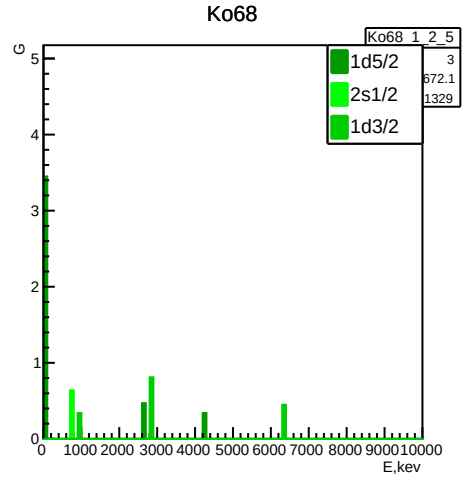
penalty: 0.240079

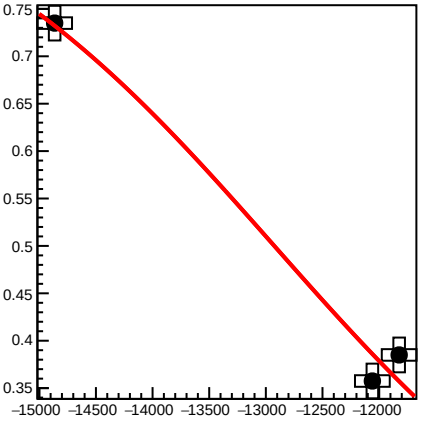
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

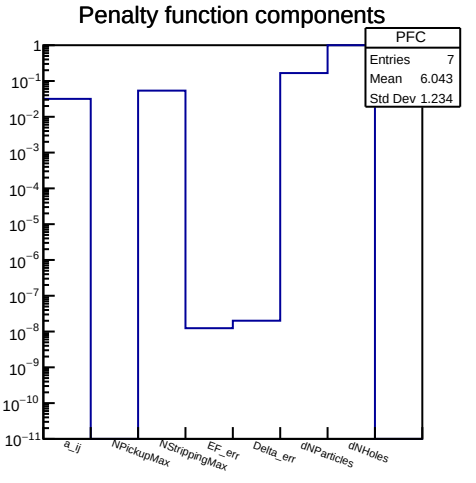
-16117.7 1d5/2 0.7945 0.831

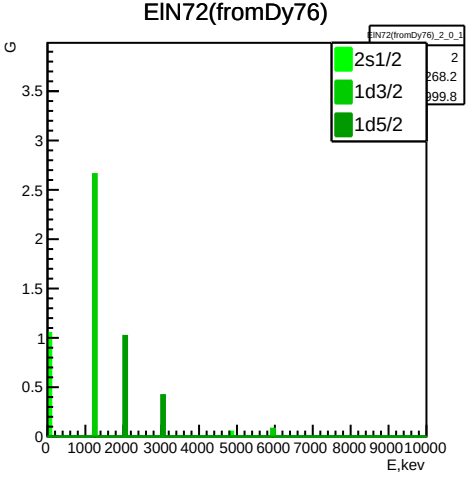
-9200.44 2s1/2 0.3105 1.019

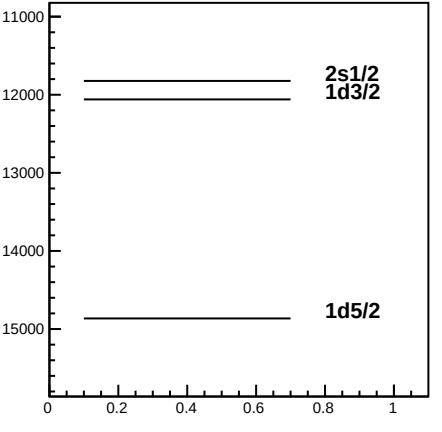
-9803.55 1d3/2 0.237 1.326











Experiment: Ko68 (7) ElN72(fromDy76) (6)

neutron transfer

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

E_F: -12925.2 ± 209.381 keV

Δ: 3697.72 ± 610.168 keV

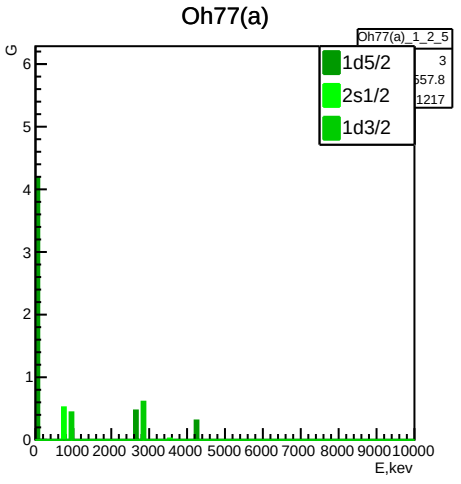
penalty: 0.240804

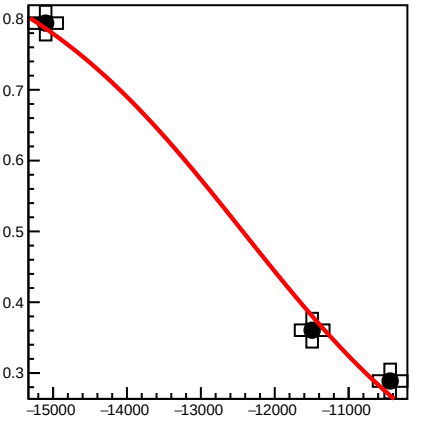
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

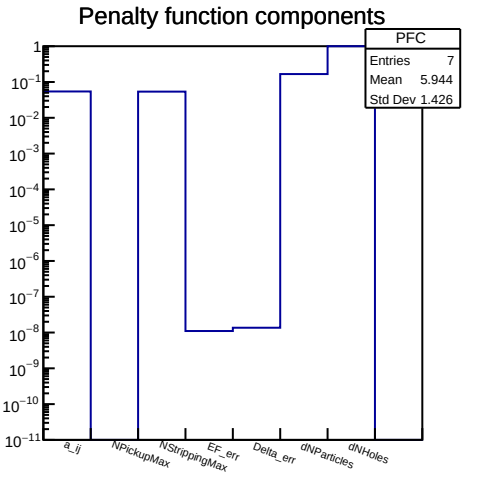
-14864.4 1d5/2 0.735 0.95

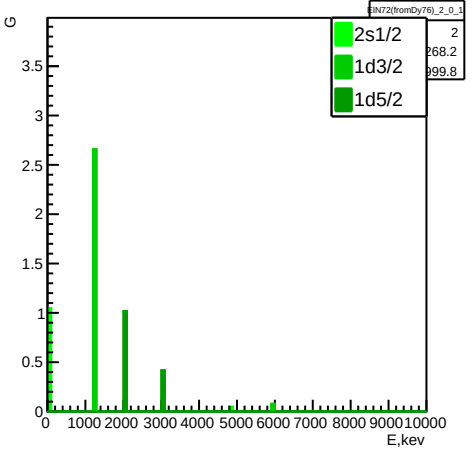
-11823.1 2s1/2 0.385 0.87

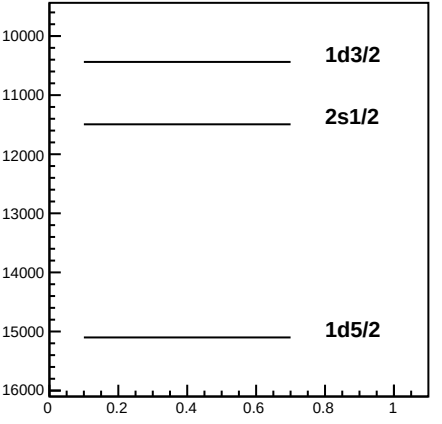
-12059.7 1d3/2 0.3575 1.085











Experiment: Oh77(a) (7) ElN72(fromDy76) (6)

neutron transfer

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

E_F: -12433.2 ± 186.22 keV

Δ: 3814.39 ± 414.001 keV

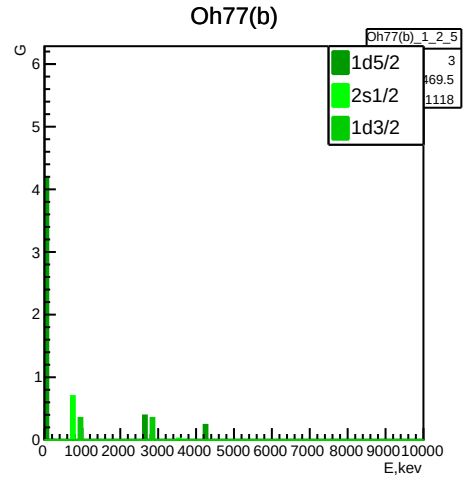
penalty: 0.245173

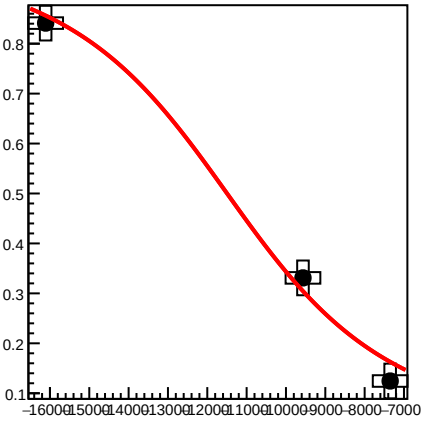
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

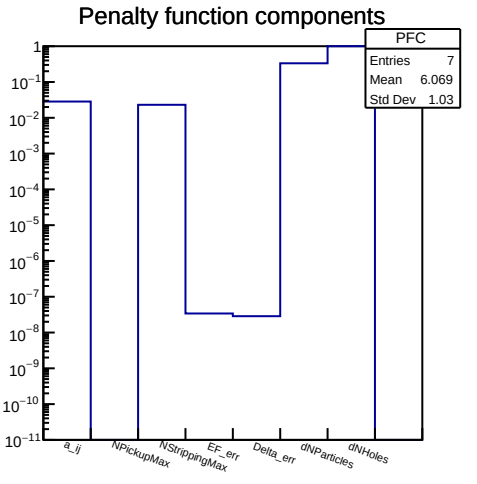
-15100.7 1d5/2 0.794167 1.06833

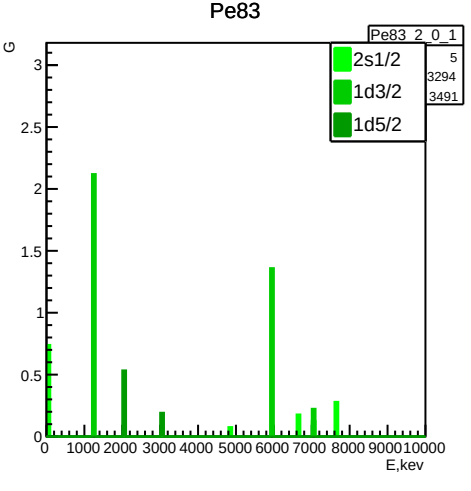
-11493.9 2s1/2 0.3605 0.821

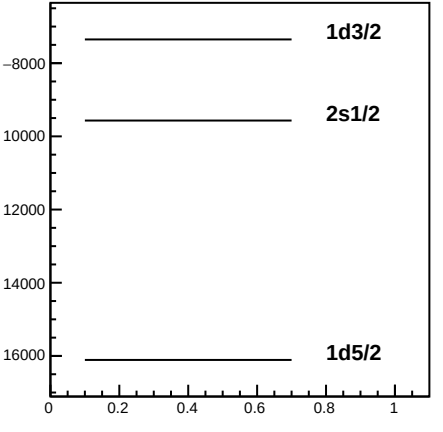
-10438 1d3/2 0.28875 0.9475











Experiment: Oh77(b) (7) Pe83 (10)

neutron transfer

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

E_F: -11497.3 ± 574.908 keV

Δ: 4541.7 ± 870.173 keV

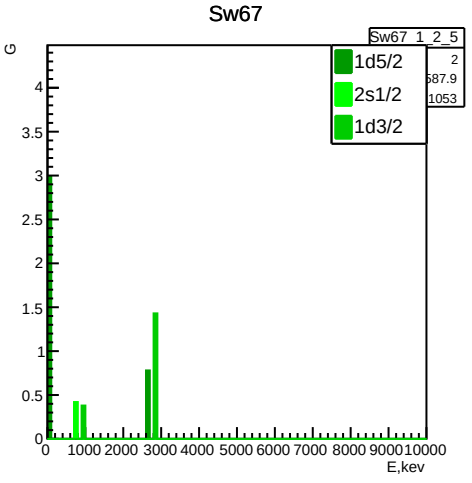
penalty: 0.266318

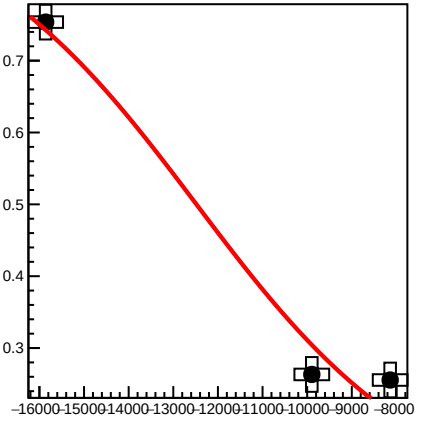
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

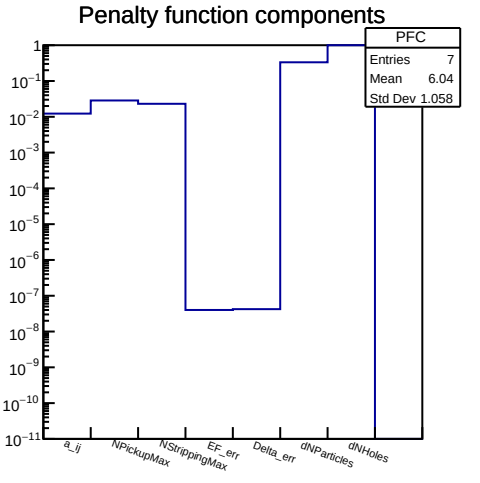
-16109.3 1d5/2 0.841167 0.924333

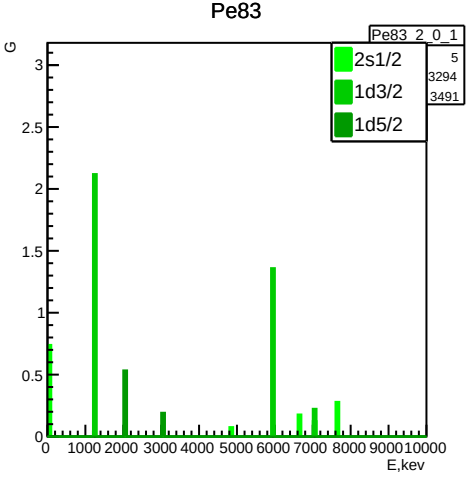
-9567.87 2s1/2 0.331 1.06

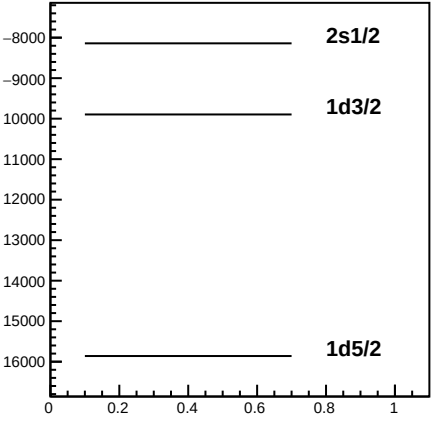
-7351.36 1d3/2 0.1245 1.101











Experiment: Sw67 (5) Pe83 (10)

neutron transfer

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

E_F: -12481.6 ± 676.324 keV

Δ: -6082.46 ± 1283.74 keV

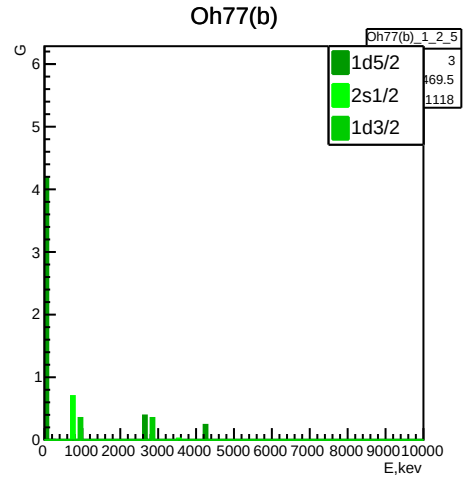
penalty: 0.268704

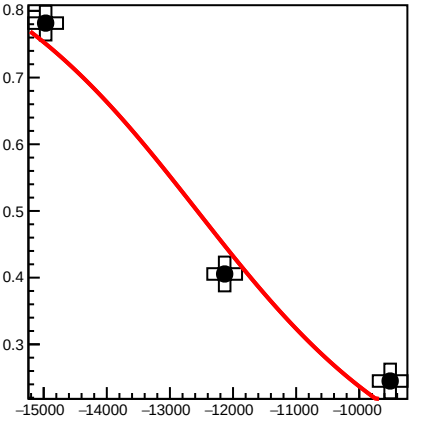
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

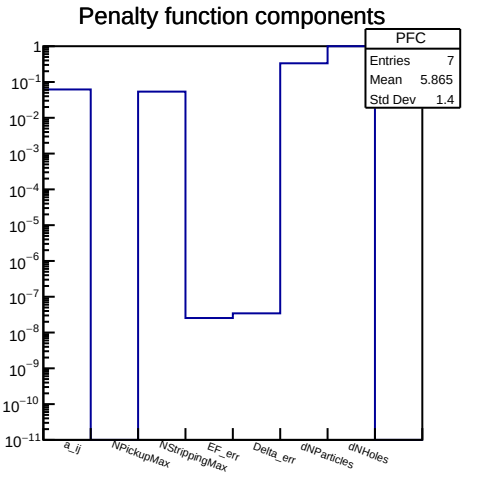
-15860.2 1d5/2 0.753667 0.749333

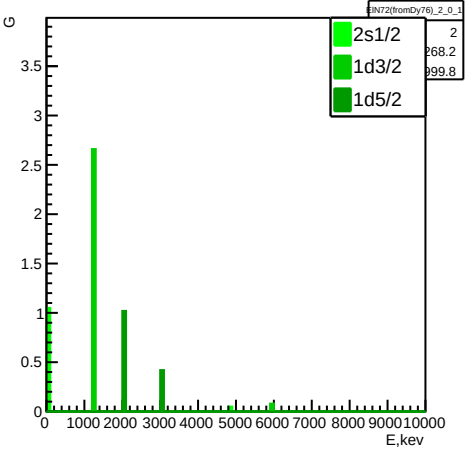
-8140.49 2s1/2 0.2555 0.909

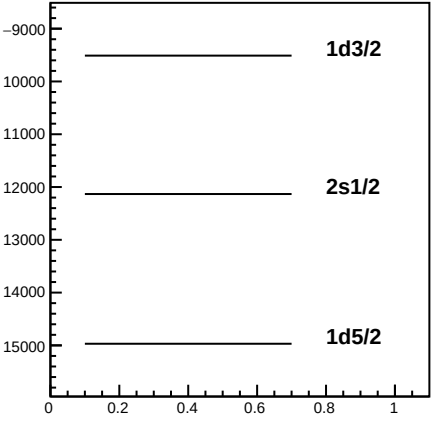
-9896.26 1d3/2 0.26325 1.3785











Experiment: Oh77(b) (7) ElN72(fromDy76) (6

neutron transfer

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

E_F: -12566.3 ± 429.779 keV

Δ: 4146.71 ± 1045.23 keV

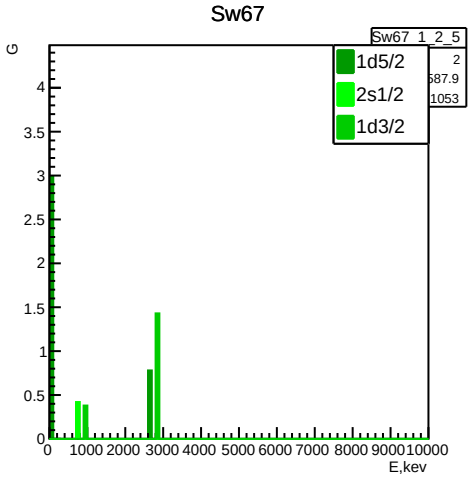
penalty: 0.278667

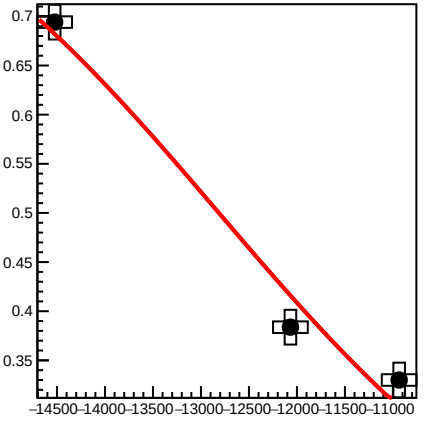
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

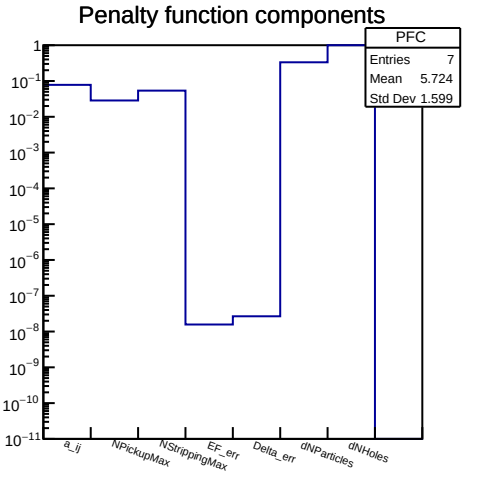
-14969.1 1d5/2 0.781667 1.04333

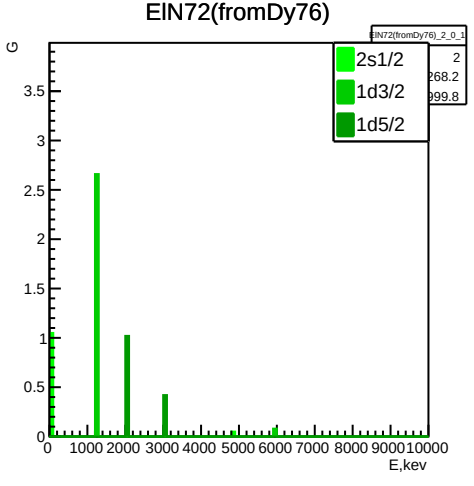
-12132.6 2s1/2 0.4055 0.911

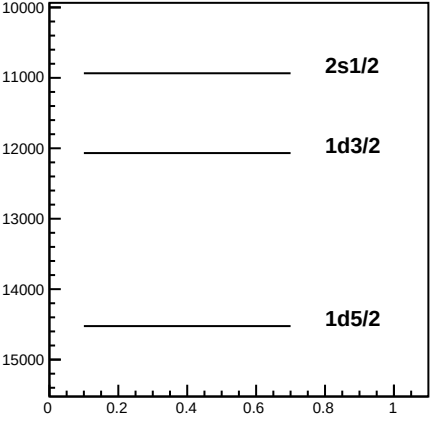
-9510.53 1d3/2 0.245 0.86











Experiment: Sw67 (5) ElN72(fromDy76) (6)

neutron transfer

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

E_F: -12813.2 ± 265.431 keV

Δ: 4373.93 ± 811.159 keV

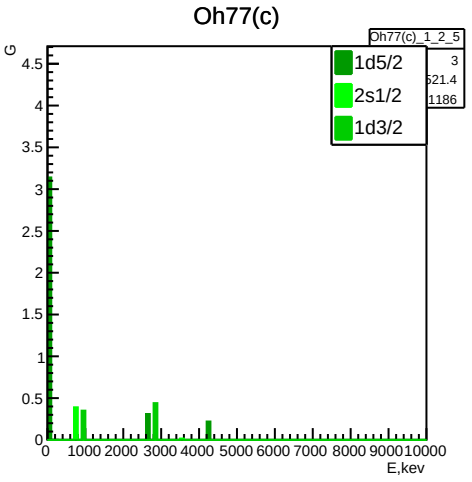
penalty: 0.28727

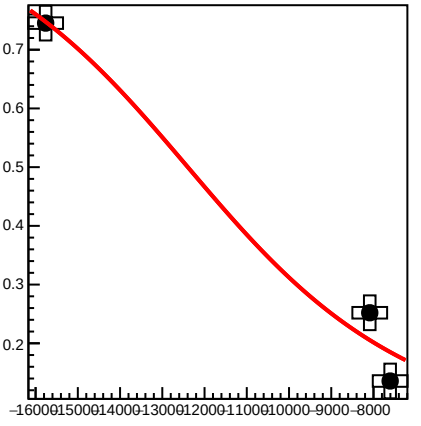
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

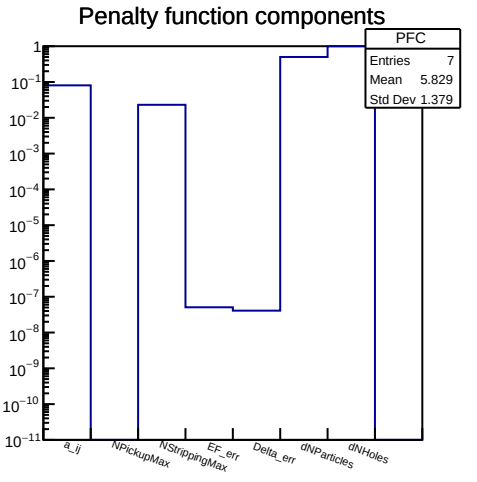
-14524.4 1d5/2 0.694167 0.868333

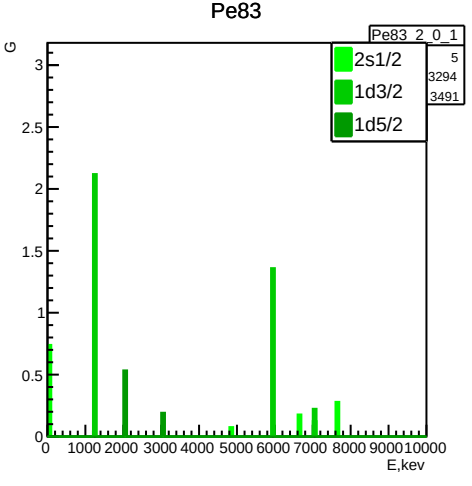
-10935 2s1/2 0.33 0.76

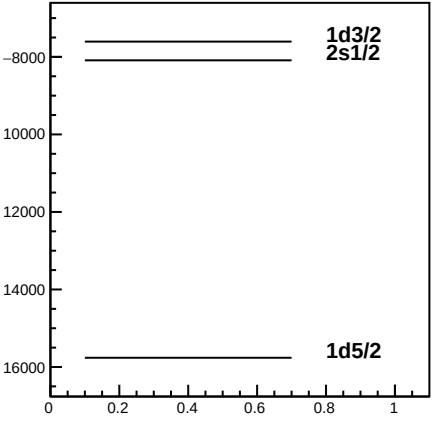
-12067.9 1d3/2 0.38375 1.1375











Experiment: Oh77(c) (7) Pe83 (10)

neutron transfer

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

E_F: -12395.6 ± 856.748 keV

Δ: 5907.03 ± 1242.82 keV

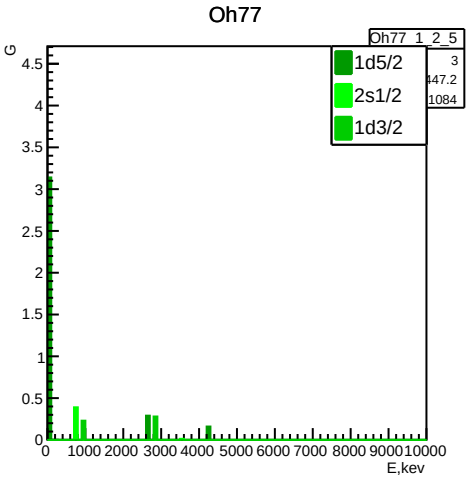
penalty: 0.308402

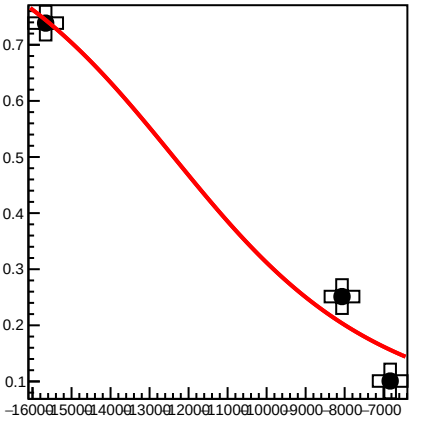
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

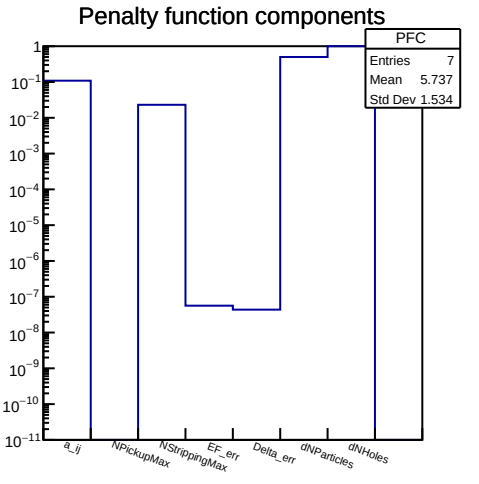
-15761.8 1d5/2 0.745333 0.732667

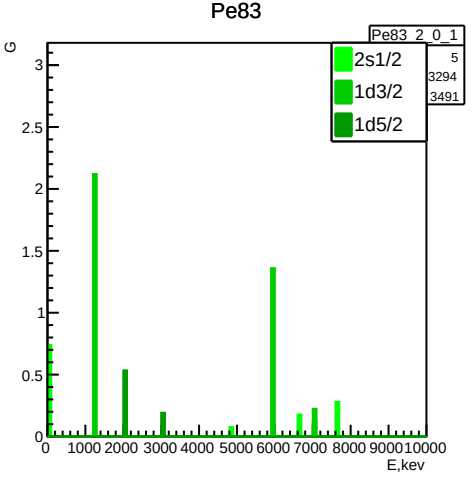
-8088.76 2s1/2 0.252 0.902

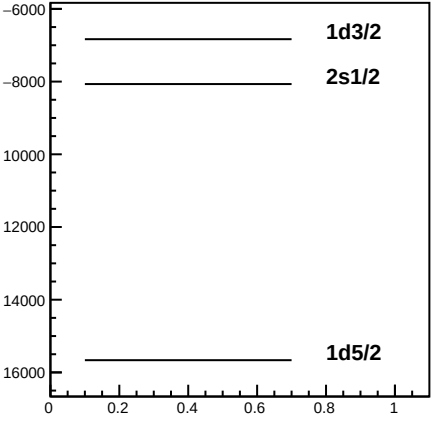
-7605.57 1d3/2 0.13575 1.1235











Experiment: Oh77 (7) Pe83 (10)

neutron transfer

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

E_F: -12382.5 ± 950.77 keV

Δ: -5864.39 ± 1326.73 keV

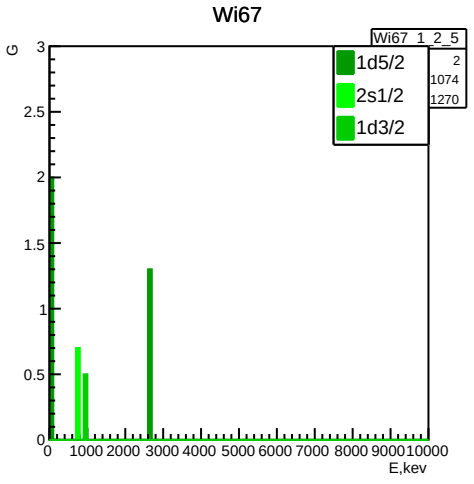
penalty: 0.31384

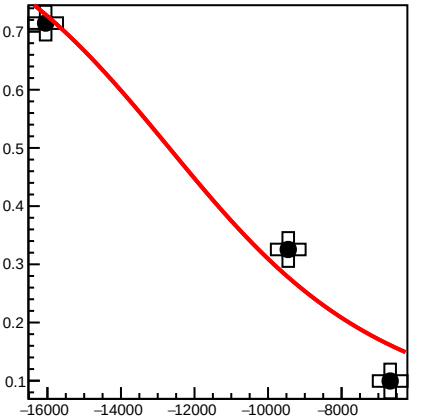
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

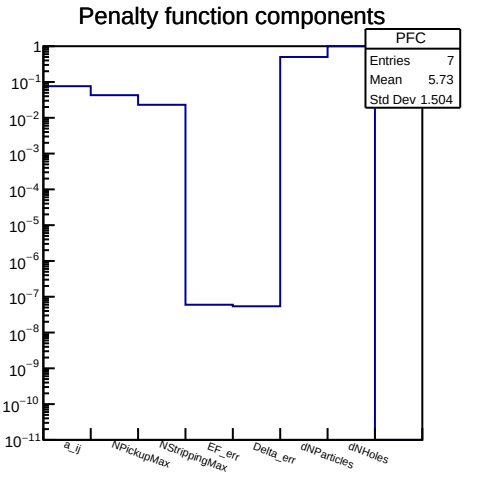
-15663.7 1d5/2 0.738667 0.719333

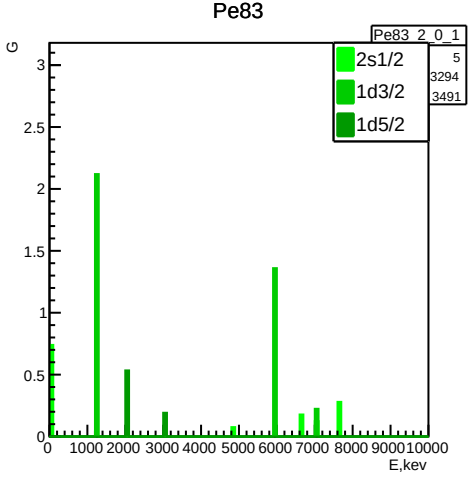
-8067.72 2s1/2 0.25125 0.9005

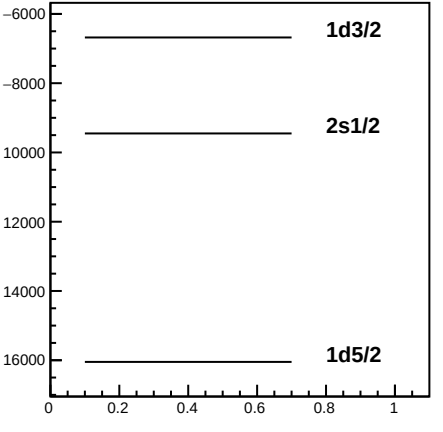
-6833.39 1d3/2 0.10075 1.0535











Experiment: Wi67 (4) Pe83 (10)

neutron transfer

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

E_F: -12687 ± 1009.23 keV

Δ: 6520.24 ± 1644.96 keV

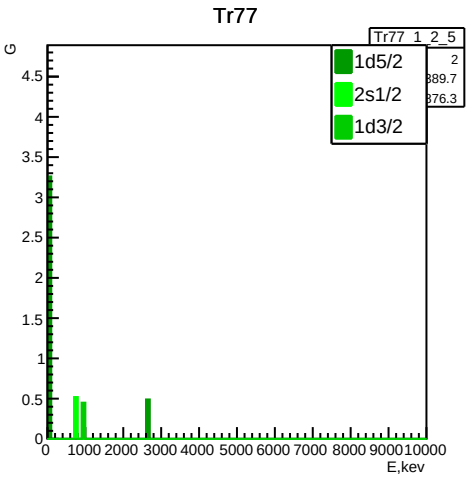
penalty: 0.315821

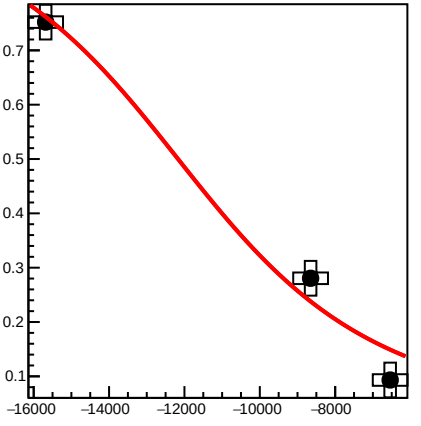
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

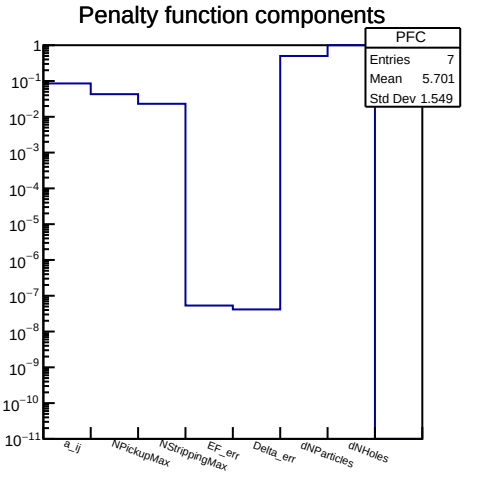
-16048.3 1d5/2 0.7145 0.671

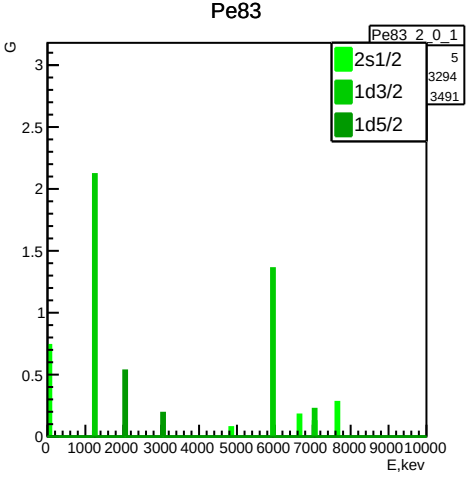
-9450.94 2s1/2 0.3255 1.049

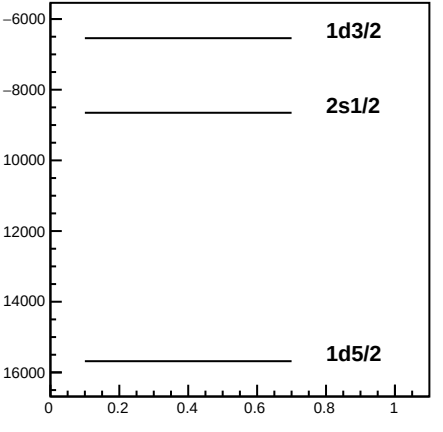
-6679.37 1d3/2 0.0995 1.051











Experiment: Tr77 (4) Pe83 (10)

neutron transfer

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

E_F: -12169.9 ± 898.858 keV

Δ: -5715.07 ± 1260.22 keV

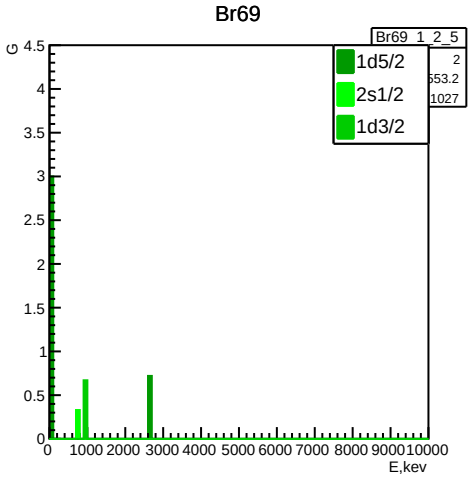
penalty: 0.317584

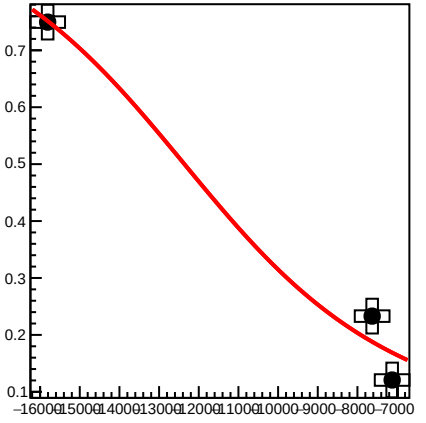
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

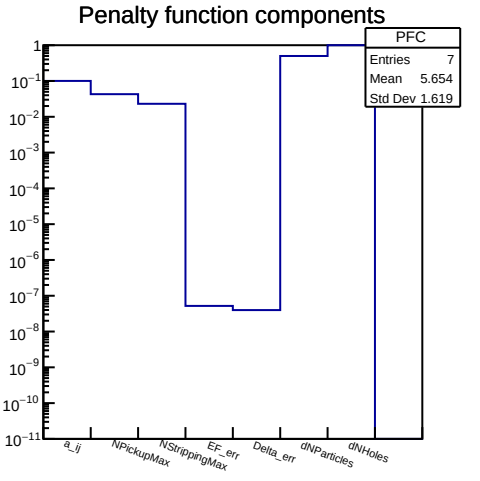
-15682.8 1d5/2 0.752 0.746

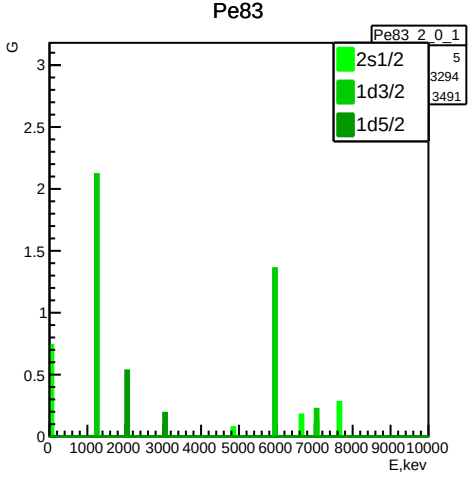
-8652.43 2s1/2 0.2805 0.959

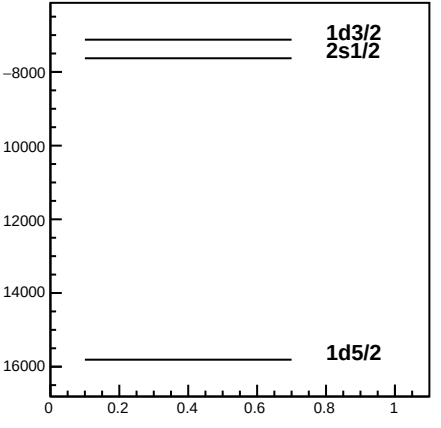
-6541.47 1d3/2 0.09325 1.0385











Experiment: Br69 (4) Pe83 (10)

neutron transfer

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

E_F: -12361.9 ± 878.075 keV

Δ: -5925.62 ± 1208.69 keV

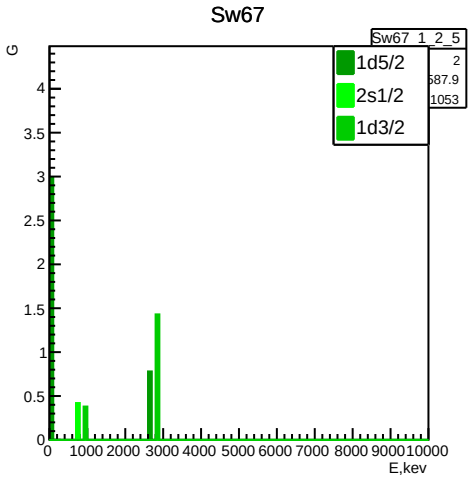
penalty: 0.320468

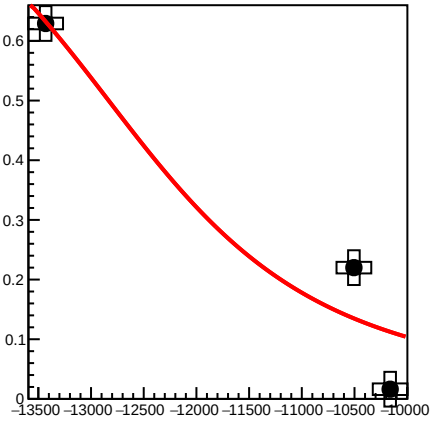
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

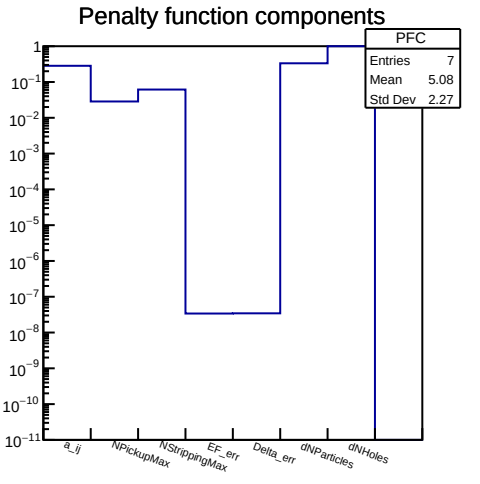
-15809.7 1d5/2 0.7495 0.741

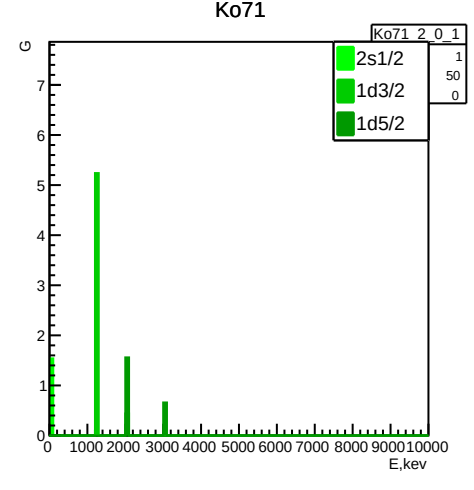
-7629.08 2s1/2 0.233 0.864

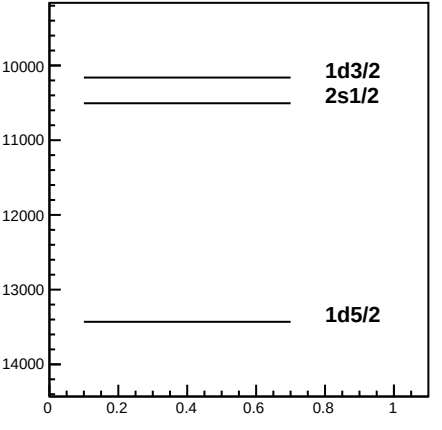
-7124.64 1d3/2 0.12075 1.0935











Experiment: Sw67 (5) Ko71 (5)

neutron transfer

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

E_F: -12832.8 ± 573.576 keV

Δ: -2177.37 ± 1046.65 keV

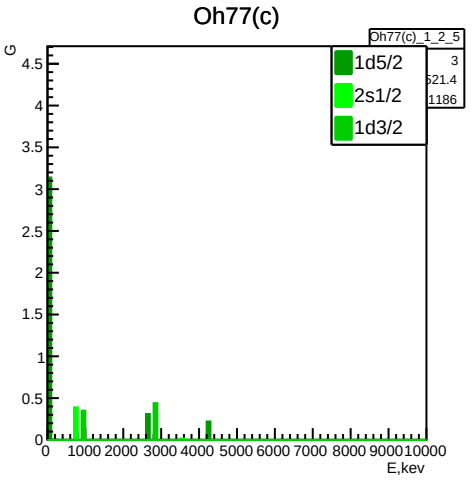
penalty: 0.32828

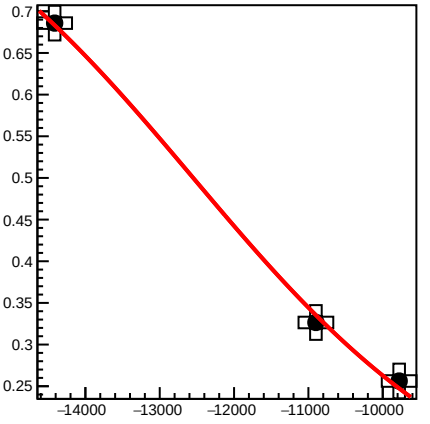
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

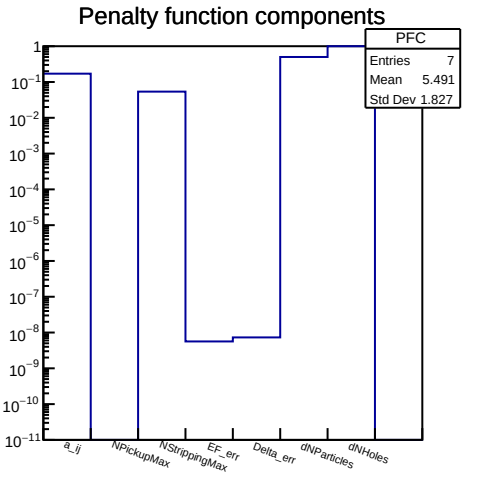
-13430.6 1d5/2 0.629167 0.998333

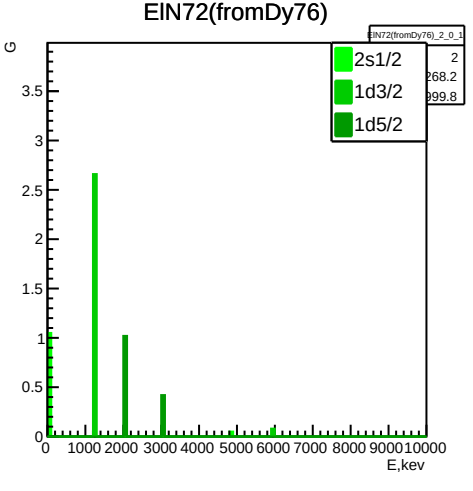
-10505.7 2s1/2 0.22 0.98

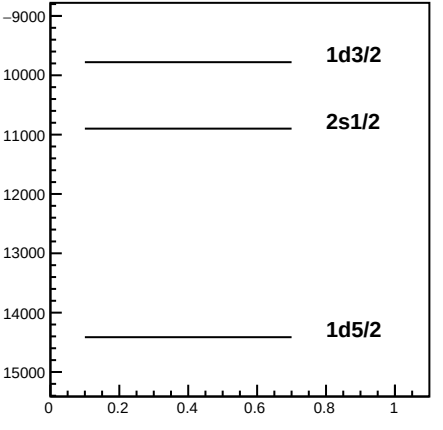
-10161.6 1d3/2 0.01625 1.8725











Experiment: Oh77(c) (7) ElN72(fromDy76) (6)

neutron transfer

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

E_F: -12549.4 ± 95.1956 keV

Δ: 4731.67 ± 222.222 keV

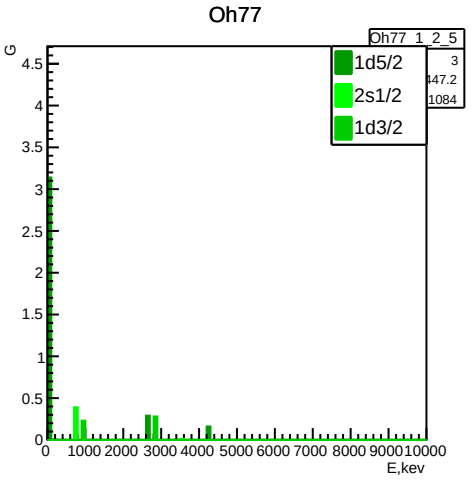
penalty: 0.331691

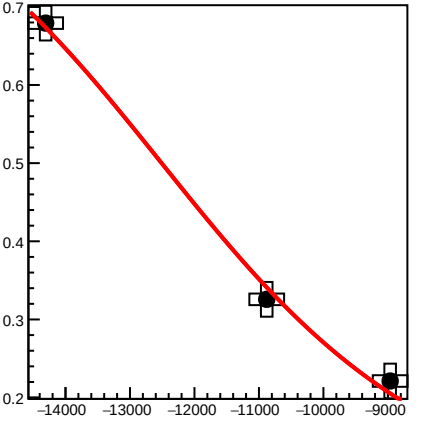
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

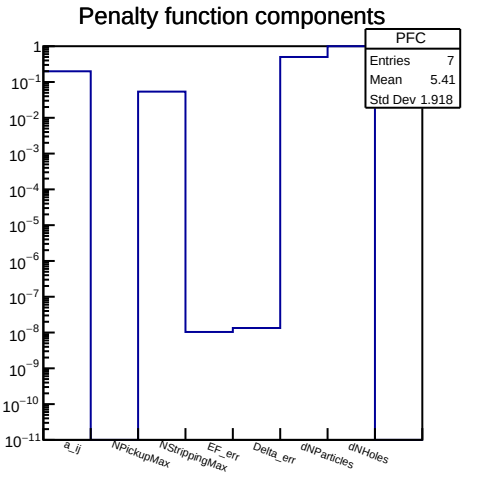
-14413.6 1d5/2 0.685833 0.851667

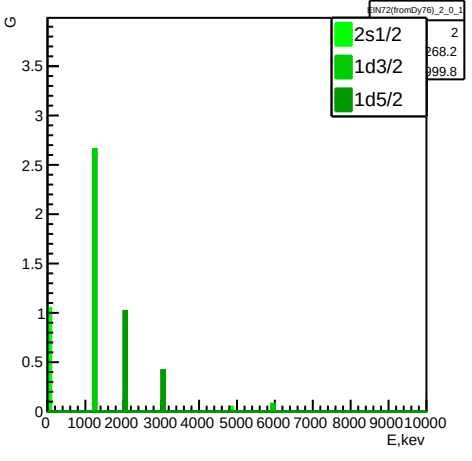
-10899 2s1/2 0.3265 0.753

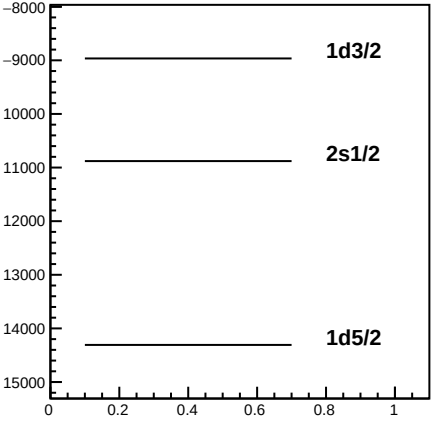
-9779.11 1d3/2 0.25625 0.8825











Experiment: Oh77 (7) ElN72(fromDy76) (6)

neutron transfer

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

E_F: -12509.4 ± 175.223 keV

Δ: 4860.64 ± 406.963 keV

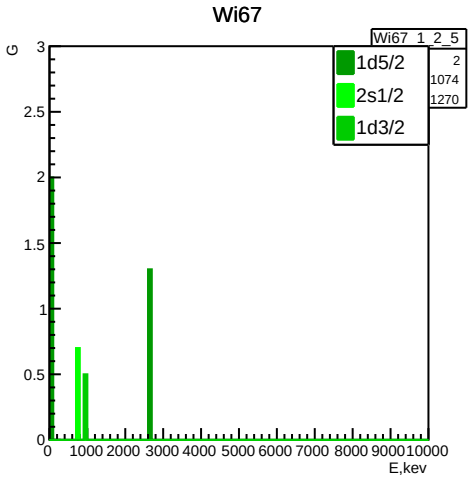
penalty: 0.337129

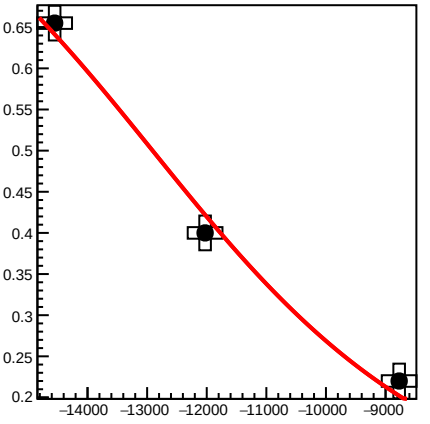
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

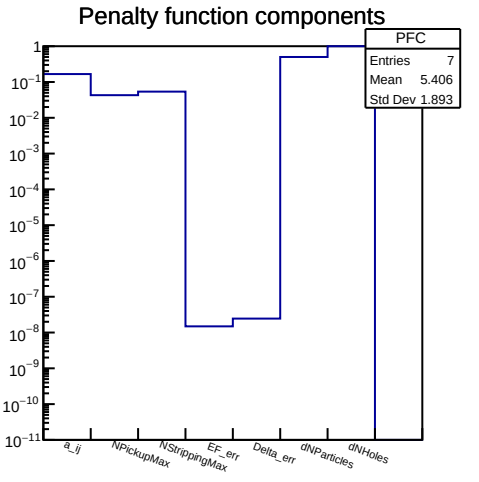
-14307.9 1d5/2 0.679167 0.838333

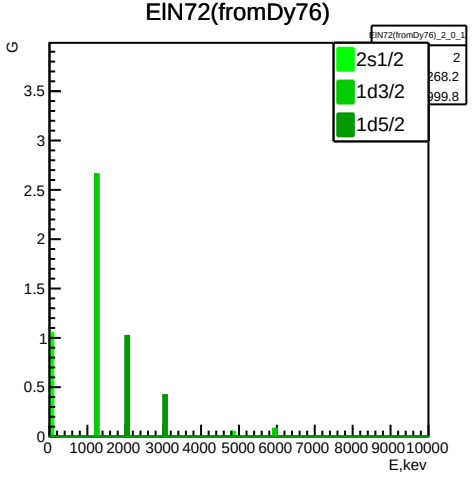
-10879.4 2s1/2 0.32575 0.7515

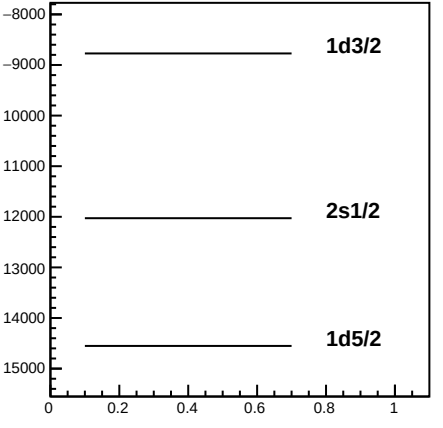
-8965.16 1d3/2 0.22125 0.8125











Experiment: Wi67 (4) ElN72(fromDy76) (6)

neutron transfer

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

E_F: -12908.2 ± 251.353 keV

Δ: 5575.13 ± 745.508 keV

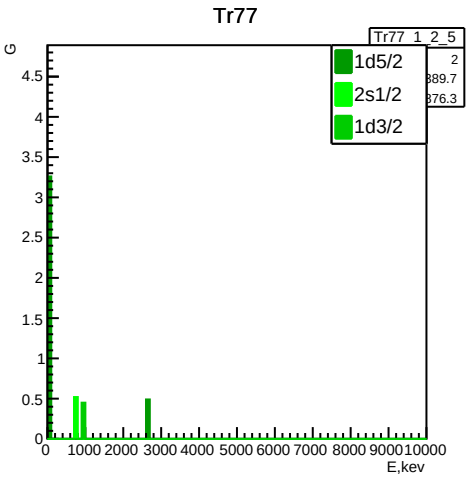
penalty: 0.33911

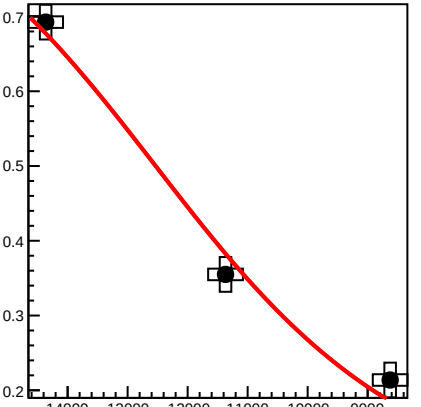
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

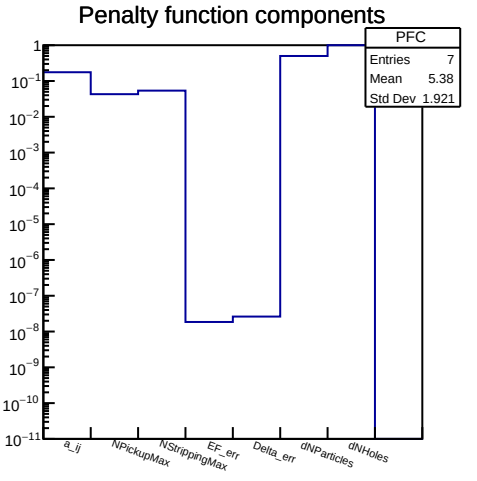
-14551.7 1d5/2 0.655 0.79

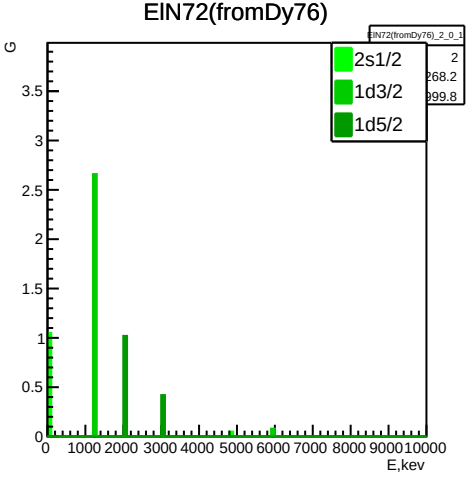
-12027.7 2s1/2 0.4 0.9

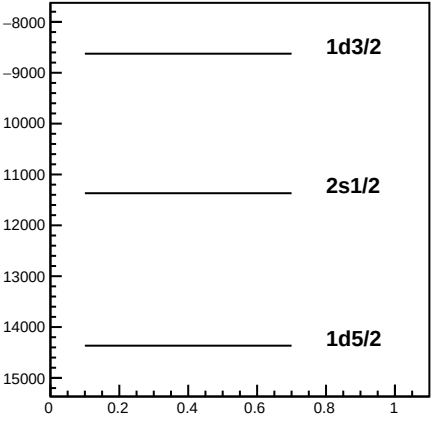
-8771.88 1d3/2 0.22 0.81











Experiment: Tr77 (4) ElN72(fromDy76) (6)

neutron transfer

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

E_F: -12533 ± 312.403 keV

Δ: 4826.86 ± 796.159 keV

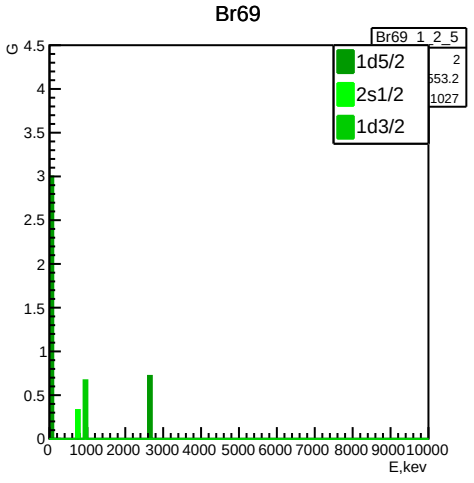
penalty: 0.340872

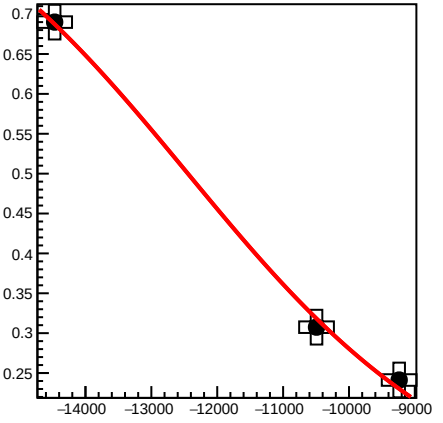
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

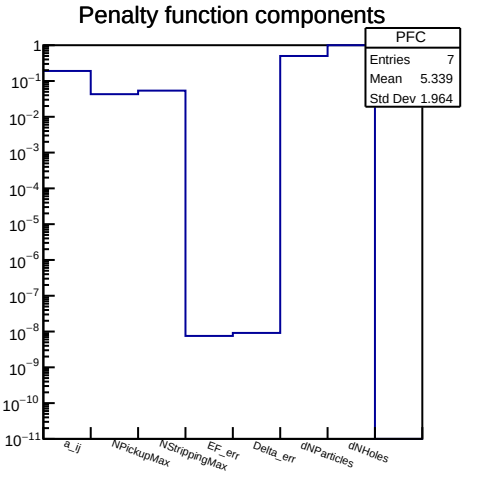
-14366.2 1d5/2 0.6925 0.865

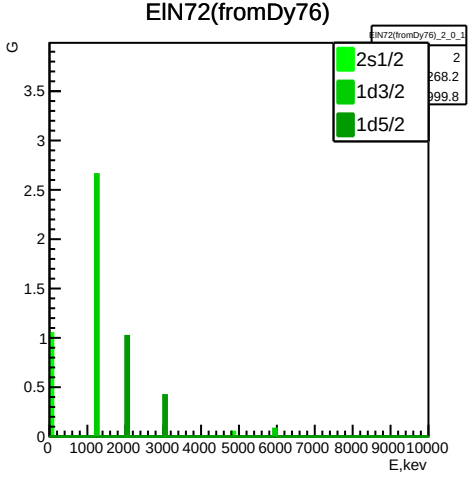
-11368.6 2s1/2 0.355 0.81

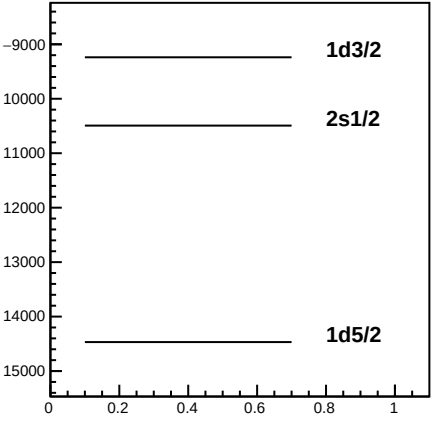
-8625.11 1d3/2 0.21375 0.7975











Experiment: Br69 (4) ElN72(fromDy76) (6)

neutron transfer

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

E_F: -12445.1 ± 127.255 keV

Δ: 5003.46 ± 277.978 keV

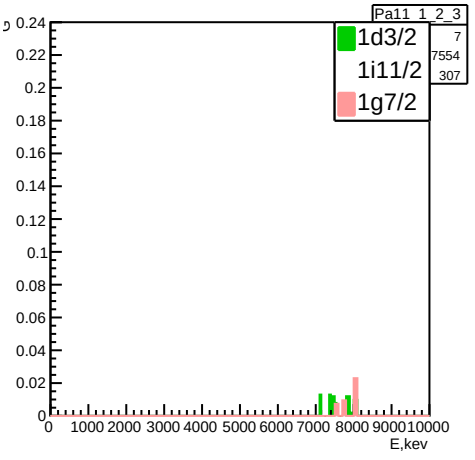
penalty: 0.343757

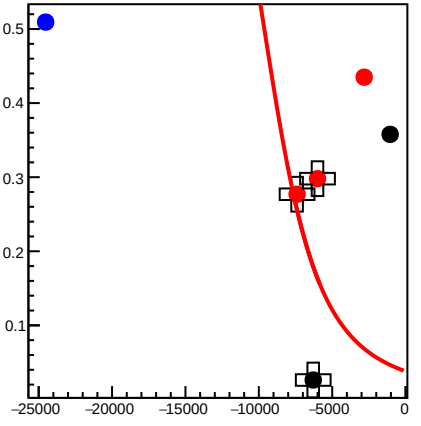
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

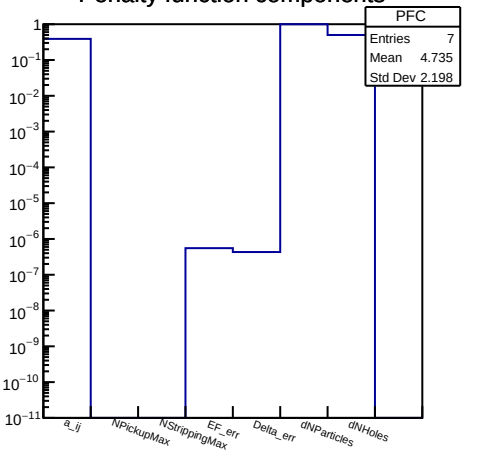
-14467.9 1d5/2 0.69 0.86

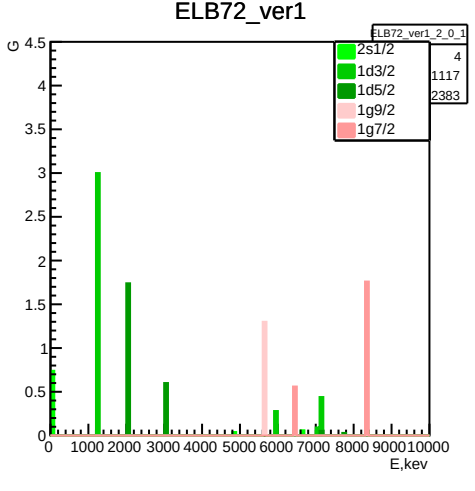
-10492.9 2s1/2 0.3075 0.715

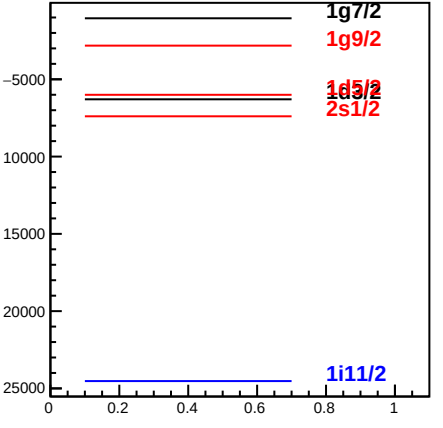
-9238.72 1d3/2 0.24125 0.8525











Experiment: Pa11 (13) ELB72_ver1 (16)

neutron transfer

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

E_F: -9626.33 ± 9344.03 keV

Δ: 3980.47 ± 13107.8 keV

penalty: 0.363306

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

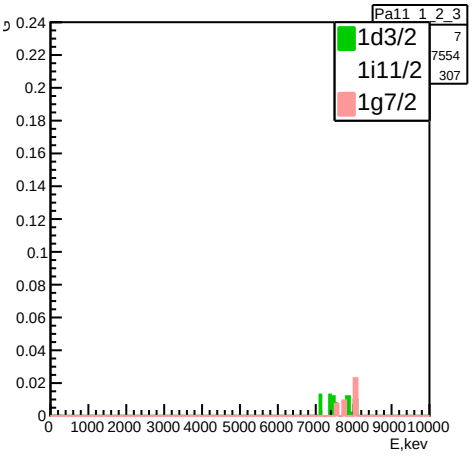
-6294.48 1d3/2 0.0262125 0.982425

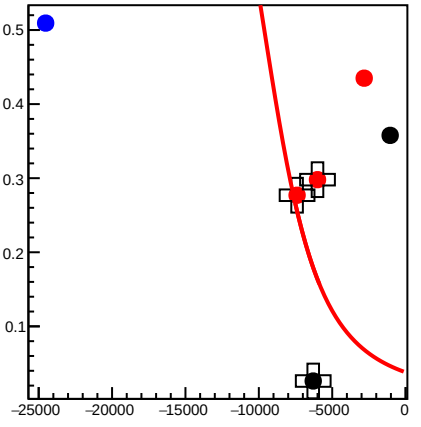
-24525.5 1i11/2 0.509333 0.446

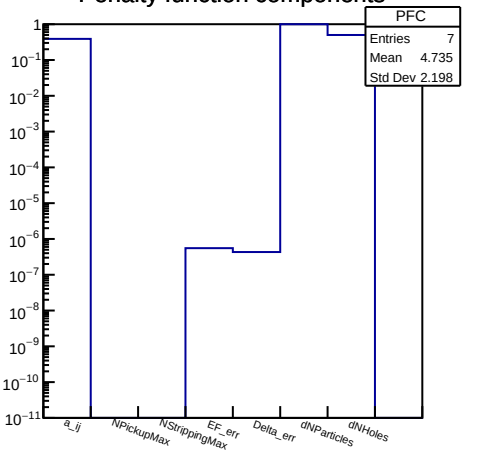
-1052.27 1g7/2 0.3578 0.404

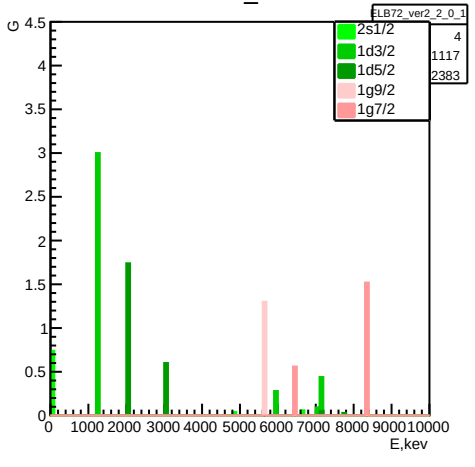
-7393.98 2s1/2 0.277 3.21143e-322

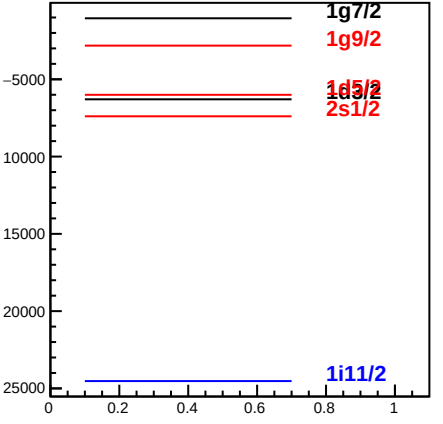
-6002.31 1d5/2 0.298 0.389192











Experiment: Pa11 (13) ELB72_ver2 (16)

neutron transfer

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

E_F: -9626.33 ± 9344.03 keV

Δ: 3980.47 ± 13107.8 keV

penalty: 0.363306

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

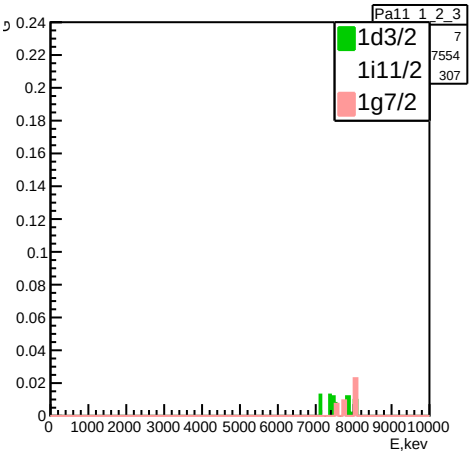
-6294.48 1d3/2 0.0262125 0.982425

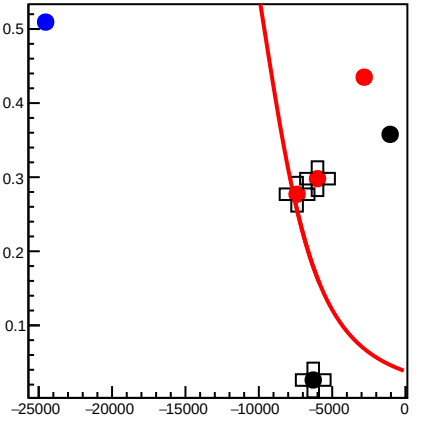
-24525.5 1i11/2 0.509333 0.446

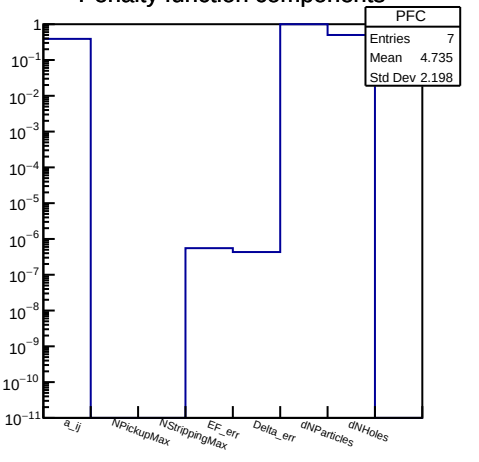
-1052.27 1g7/2 0.3578 0.404

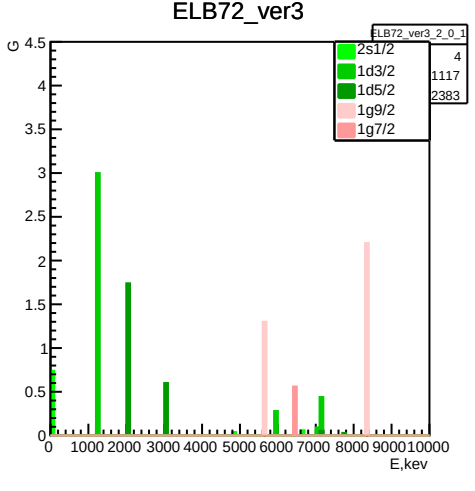
-7393.98 2s1/2 0.277 3.21143e-322

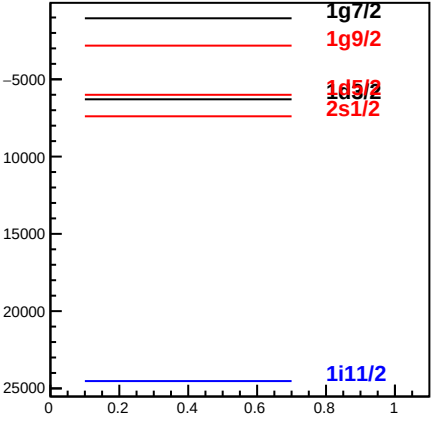
-6002.31 1d5/2 0.298 0.389192











Experiment: Pa11 (13) ELB72_ver3 (16)

neutron transfer

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

E_F: -9626.33 ± 9344.03 keV

Δ: 3980.47 ± 13107.8 keV

penalty: 0.363306

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

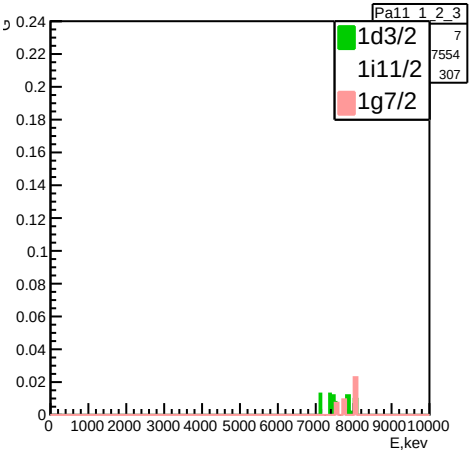
-6294.48 1d3/2 0.0262125 0.982425

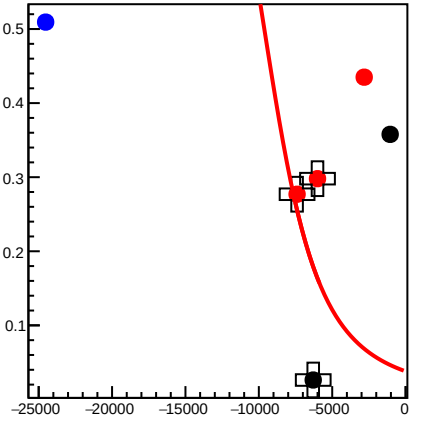
-24525.5 1i11/2 0.509333 0.446

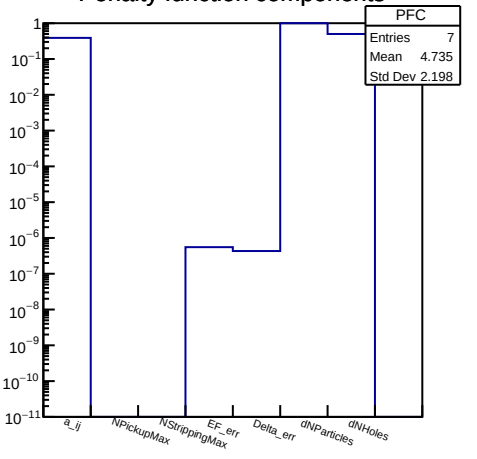
-1052.27 1g7/2 0.3578 0.404

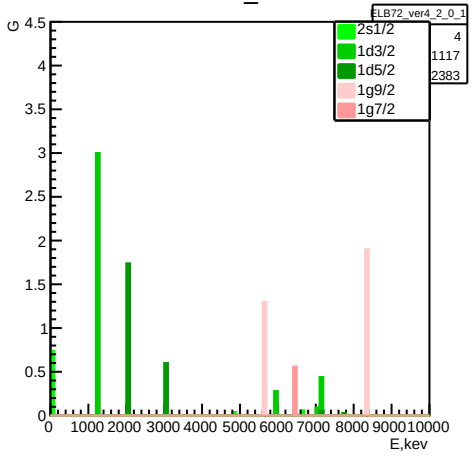
-7393.98 2s1/2 0.277 3.21143e-322

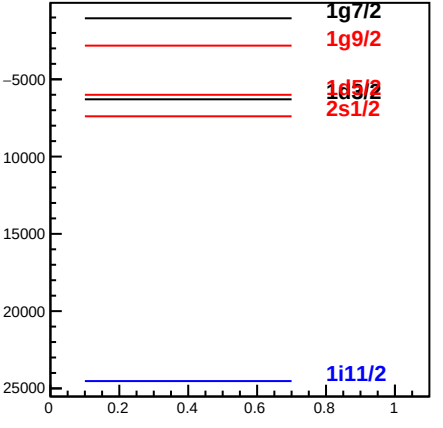
-6002.31 1d5/2 0.298 0.389192











Experiment: Pa11 (13) ELB72_ver4 (16)

neutron transfer

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

E_F: -9626.33 ± 9344.03 keV

Δ: 3980.47 ± 13107.8 keV

penalty: 0.363306

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

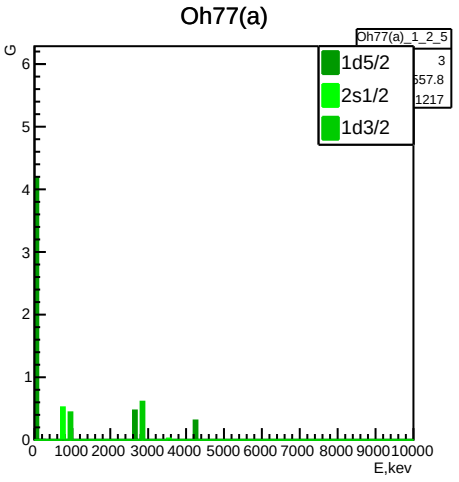
-6294.48 1d3/2 0.0262125 0.982425

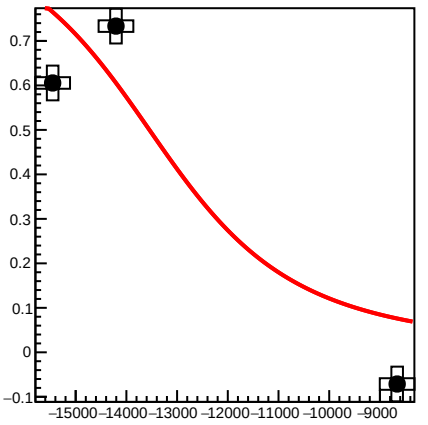
-24525.5 1i11/2 0.509333 0.446

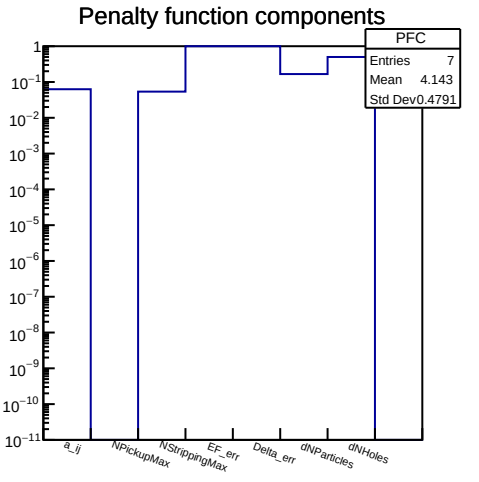
-1052.27 1g7/2 0.3578 0.404

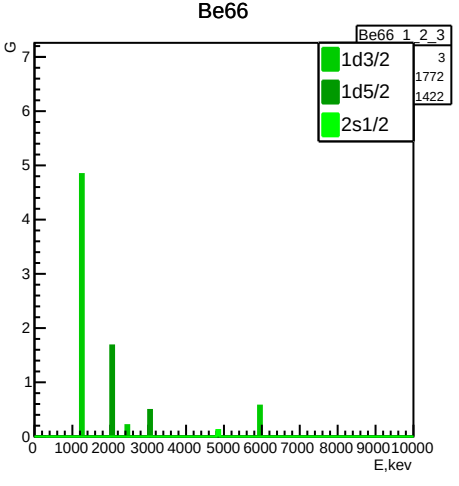
-7393.98 2s1/2 0.277 3.21143e-322

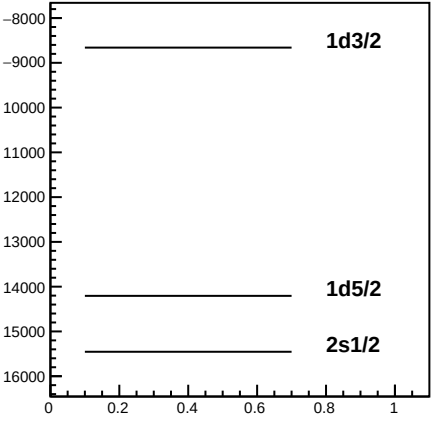
-6002.31 1d5/2 0.298 0.389192











Experiment: Oh77(a) (7) Be66 (6)

neutron transfer

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

E_F: -13545.6 ± 1449.48 keV

Δ: 3053.56 ± 2920.16 keV

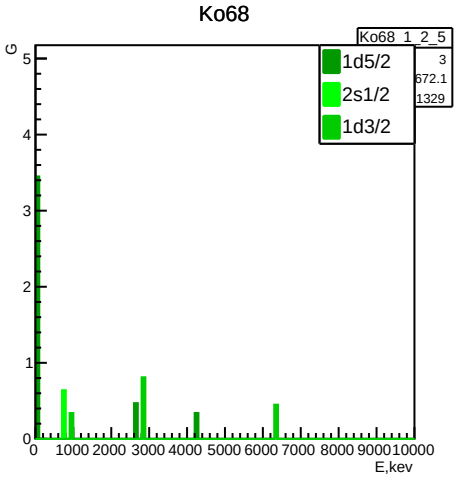
penalty: 9.095e+09

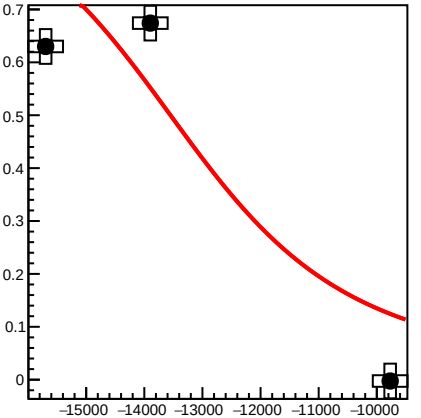
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

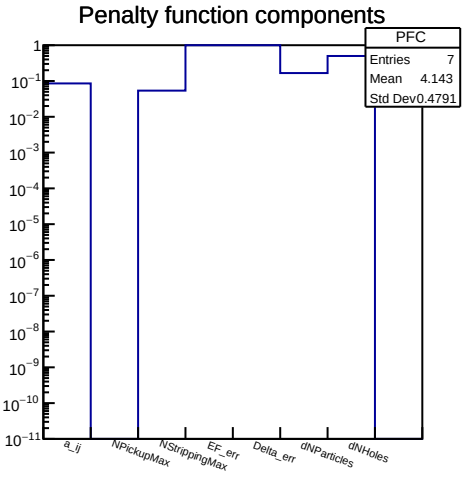
-14205.4 1d5/2 0.733333 1.19

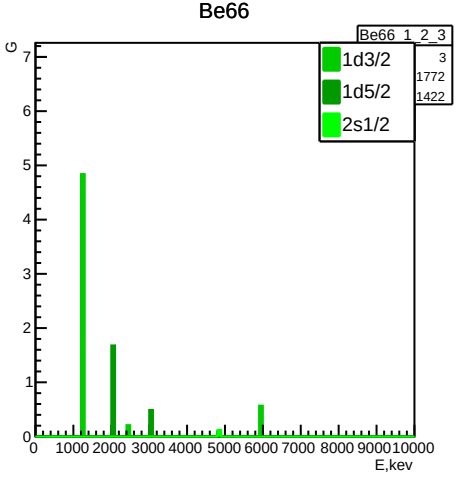
-15454.2 2s1/2 0.6055 0.331

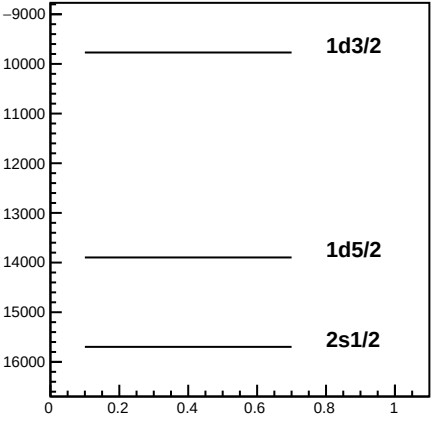
-8660.08 1d3/2 -0.07125 1.6675











Experiment: Ko68 (7) Be66 (6)

neutron transfer

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

E_F: -13549.5 ± 1290.79 keV

Δ: 3322.23 ± 2698.35 keV

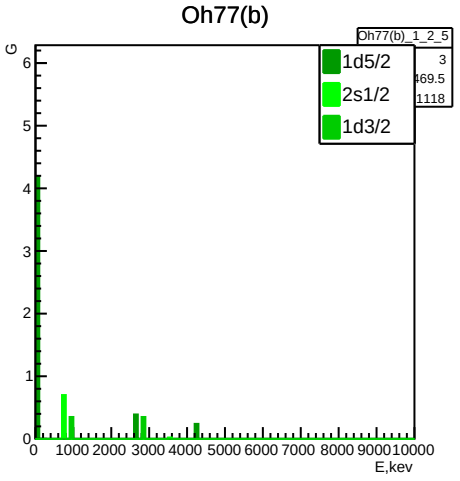
penalty: 9.095e+09

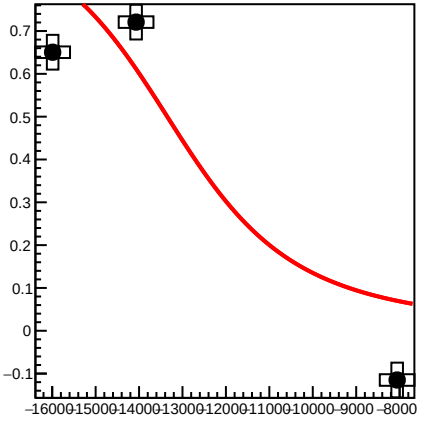
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

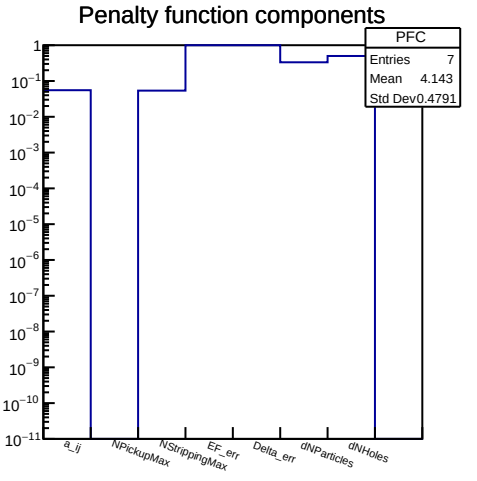
-13897.2 1d5/2 0.674167 1.07167

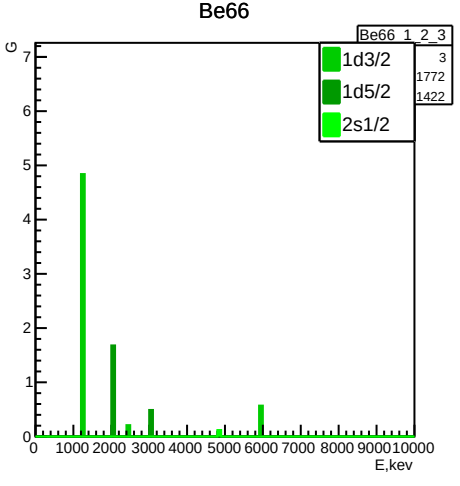
-15697.4 2s1/2 0.63 0.38

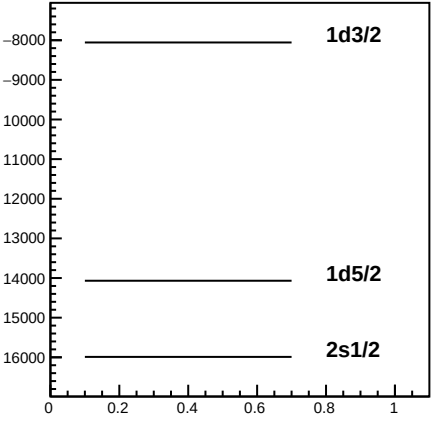
-9770.29 1d3/2 -0.0025 1.805











Experiment: Oh77(b) (7) Be66 (6)

neutron transfer

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

E_F: -13350.6 ± 1699.43 keV

Δ: -3138.88 ± 3362.56 keV

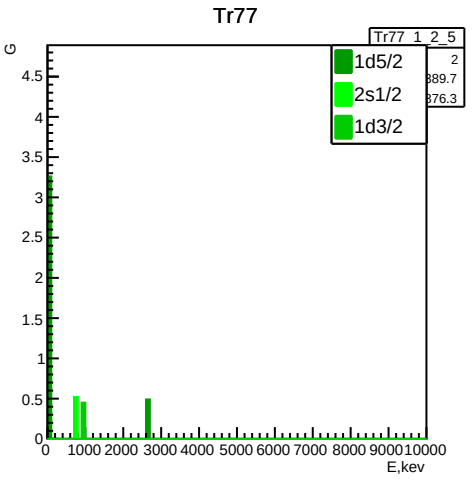
penalty: 9.095e+09

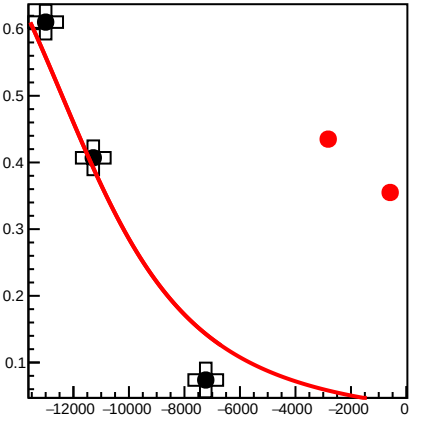
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

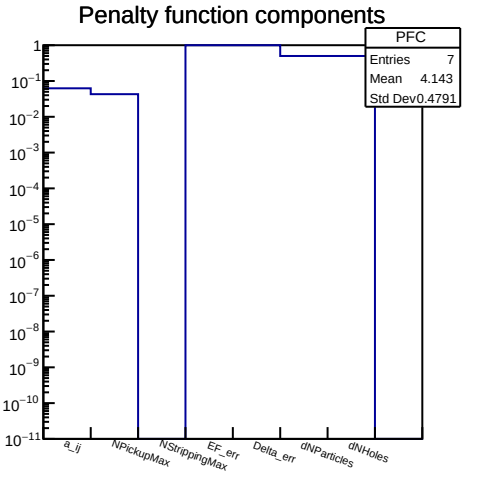
-14068.4 1d5/2 0.720833 1.165

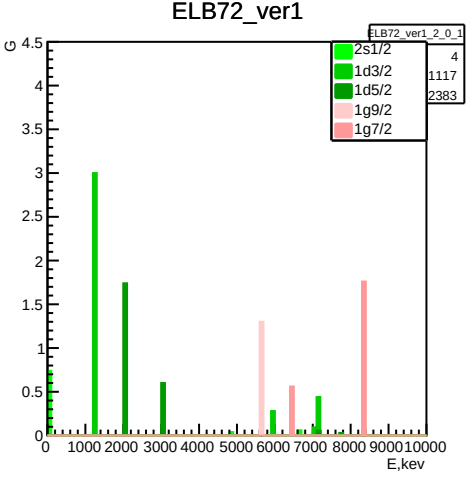
-15989.8 2s1/2 0.6505 0.421

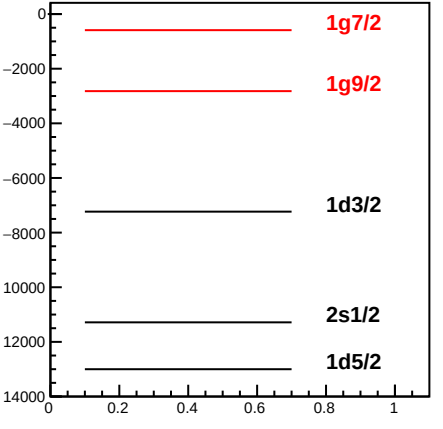
-8056.77 1d3/2 -0.115 1.58











Experiment: Tr77 (4) ELB72_ver1 (16)

neutron transfer

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

E_F: -12408.1 ± 653734 keV

Δ: 5068.95 ± 10.8606 keV

penalty: 9.095e+09

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

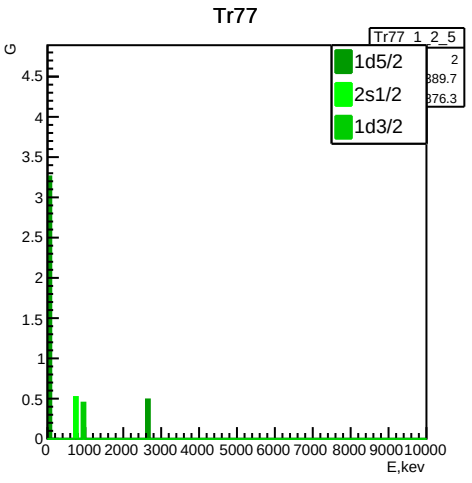
-13000.8 1d5/2 0.6105 1.029

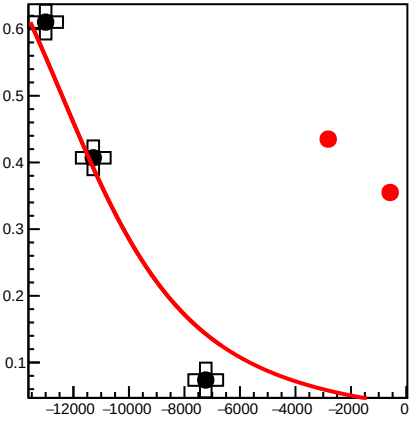
-11285 2s1/2 0.407 0.706

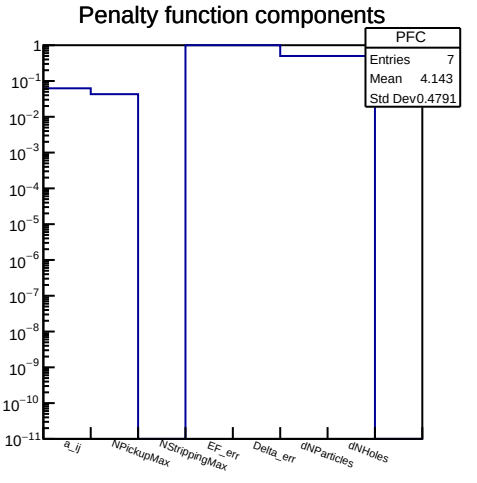
-7232.4 1d3/2 0.07375 1.0775

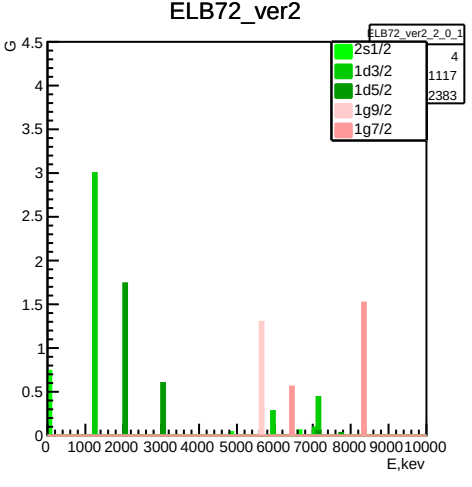
-2820.87 1g9/2 0.435 5.22215e-315

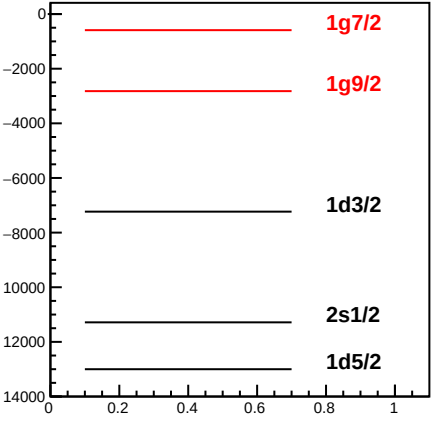
-588.767 1g7/2 0.355 2.37152e-322











Experiment: Tr77 (4) ELB72_ver2 (16)

neutron transfer

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

E_F: -12408.1 ± 653734 keV

Δ: 5068.95 ± 10.8606 keV

penalty: 9.095e+09

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

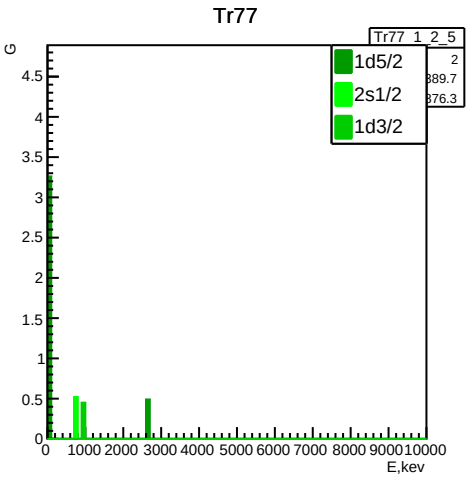
-13000.8 1d5/2 0.6105 1.029

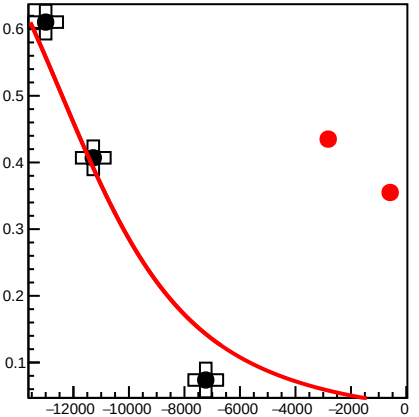
-11285 2s1/2 0.407 0.706

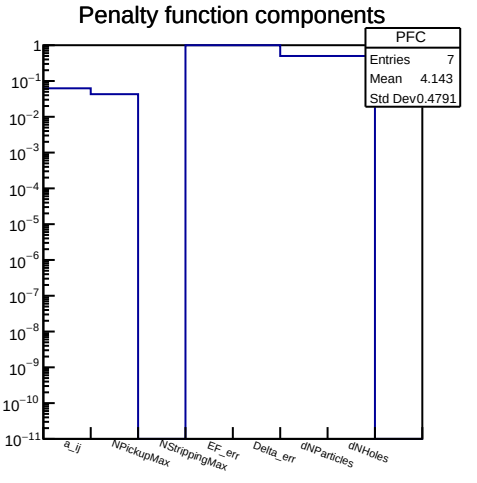
-7232.4 1d3/2 0.07375 1.0775

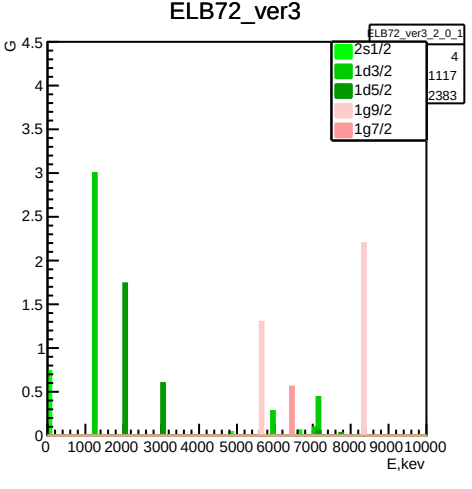
-2820.87 1g9/2 0.435 1.2732e-313

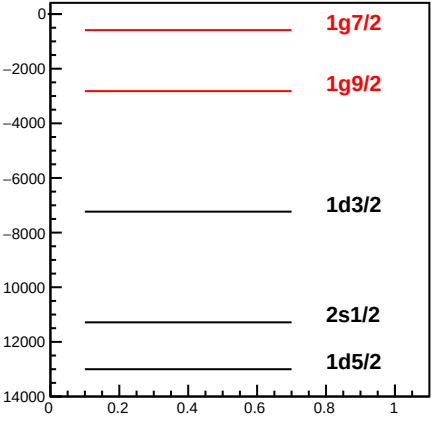
-588.767 1g7/2 0.355 2.37152e-322











Experiment: Tr77 (4) ELB72_ver3 (16)

neutron transfer

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

E_F: -12408.1 ± 653734 keV

Δ: 5068.95 ± 10.8606 keV

penalty: 9.095e+09

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

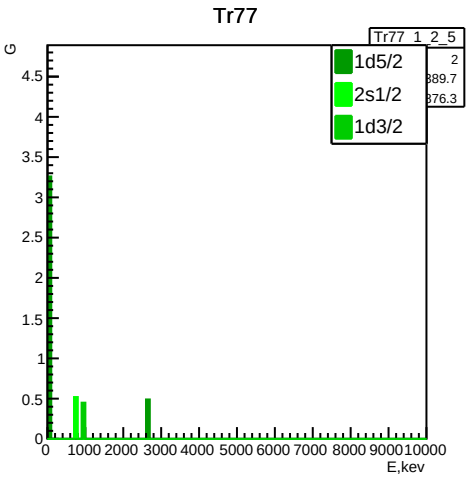
-13000.8 1d5/2 0.6105 1.029

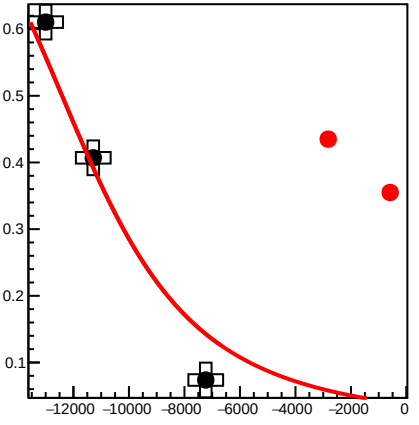
-11285 2s1/2 0.407 0.706

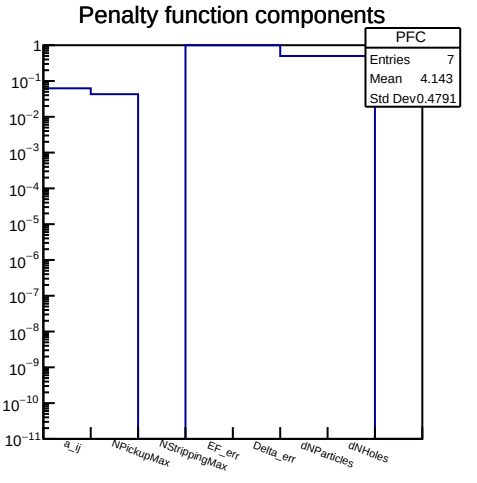
-7232.4 1d3/2 0.07375 1.0775

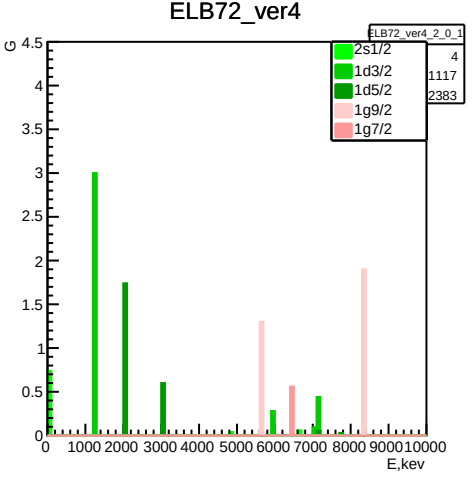
-2820.87 1g9/2 0.435 3.21143e-322

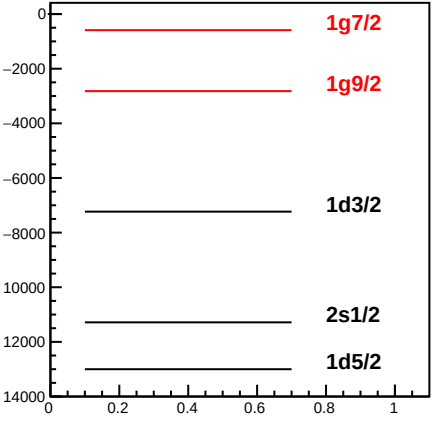
-588.767 1g7/2 0.355 0.0625











Experiment: Tr77 (4) ELB72_ver4 (16)

neutron transfer

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

E_F: -12408.1 ± 653734 keV

Δ: 5068.95 ± 10.8606 keV

penalty: 9.095e+09

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

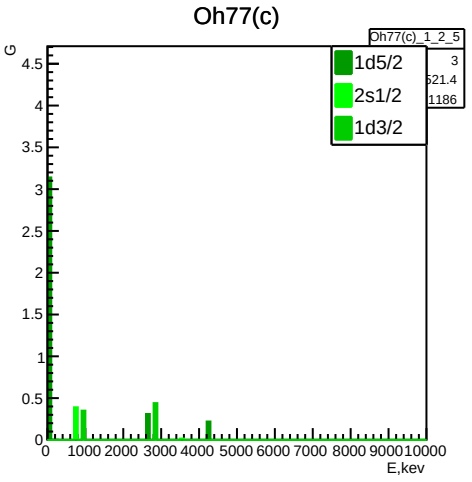
-13000.8 1d5/2 0.6105 1.029

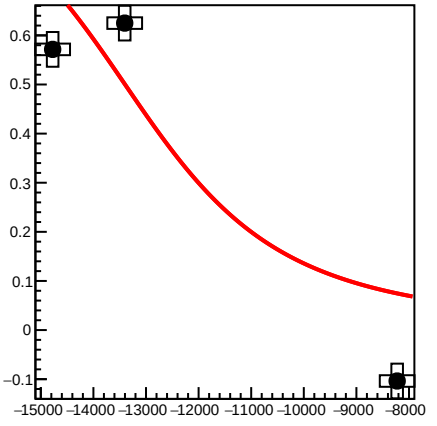
-11285 2s1/2 0.407 0.706

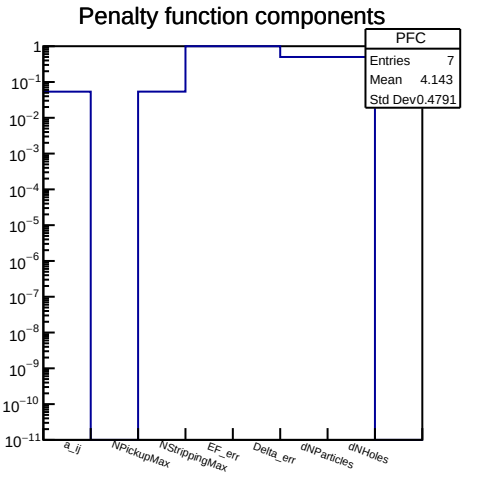
-7232.4 1d3/2 0.07375 1.0775

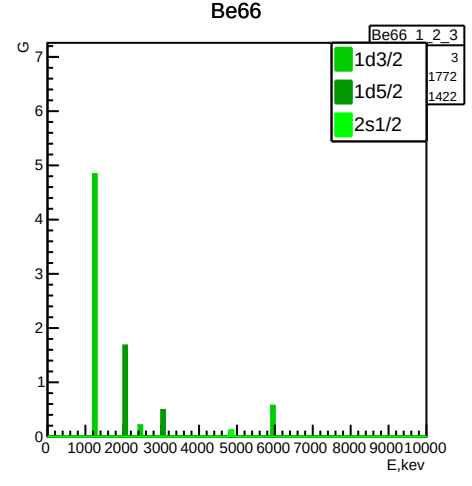
-2820.87 1g9/2 0.435 3.21143e-322

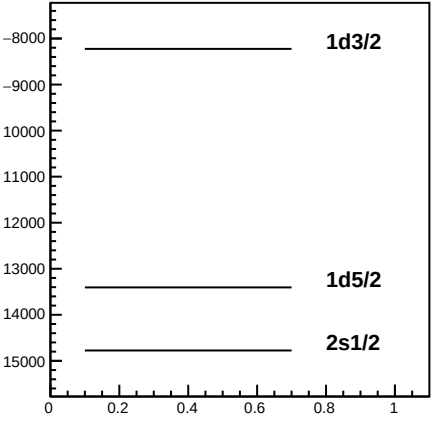
-588.767 1g7/2 0.355 0.0625











Experiment: Oh77(c) (7) Be66 (6)

neutron transfer

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

E_F: -13398.4 ± 1321.22 keV

Δ: -3195.34 ± 2890.44 keV

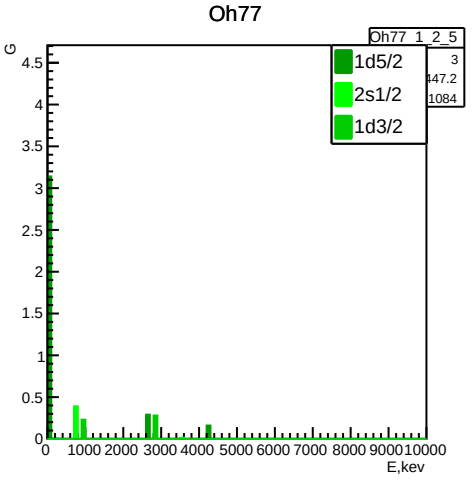
penalty: 9.095e+09

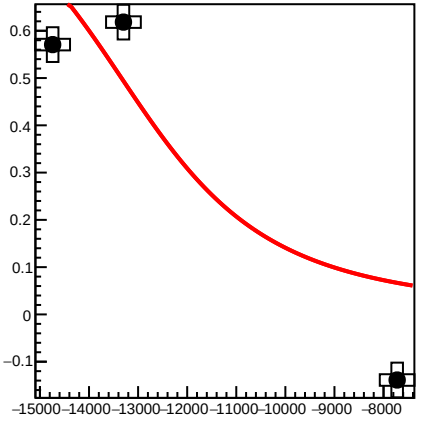
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

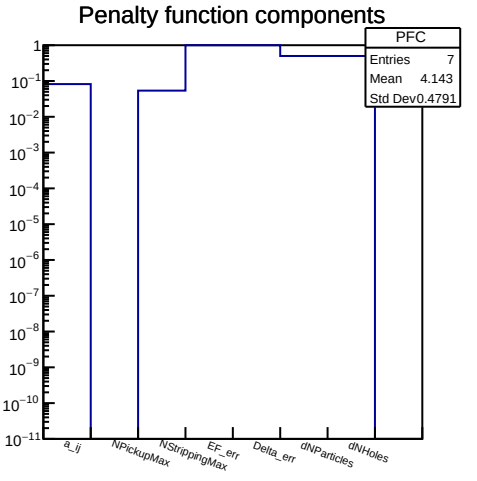
-13405 1d5/2 0.625 0.973333

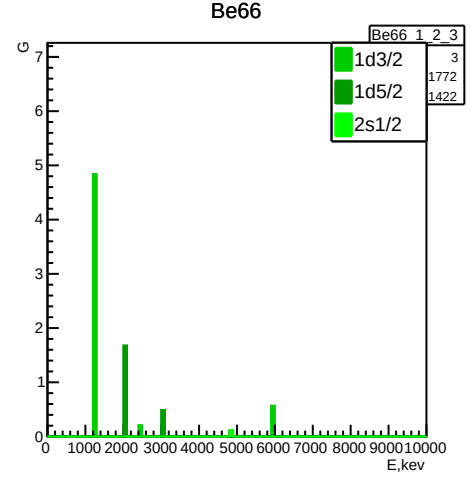
-14775 2s1/2 0.5715 0.263

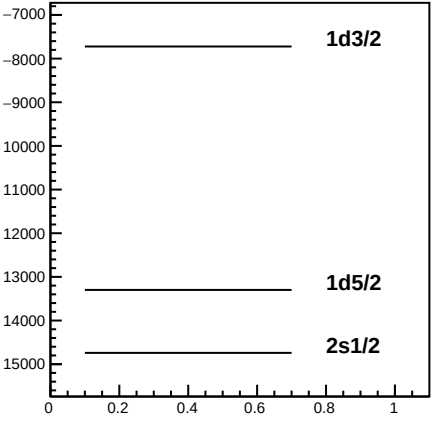
-8225.09 1d3/2 -0.10375 1.6025











Experiment: Oh77 (7) Be66 (6)

neutron transfer

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

E_F: -13338.2 ± 1462.36 keV

Δ: -3235.56 ± 3123.76 keV

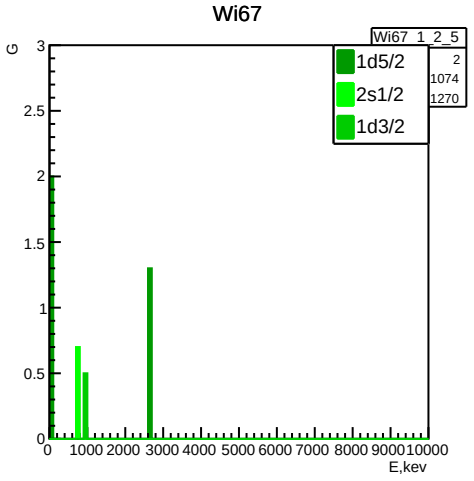
penalty: 9.095e+09

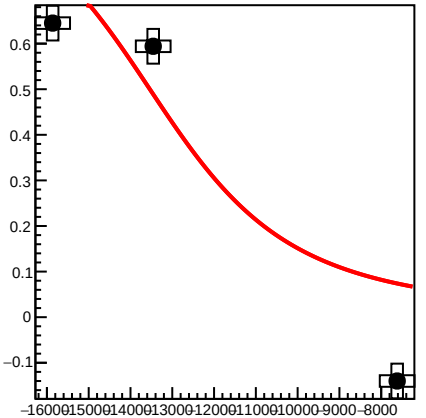
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

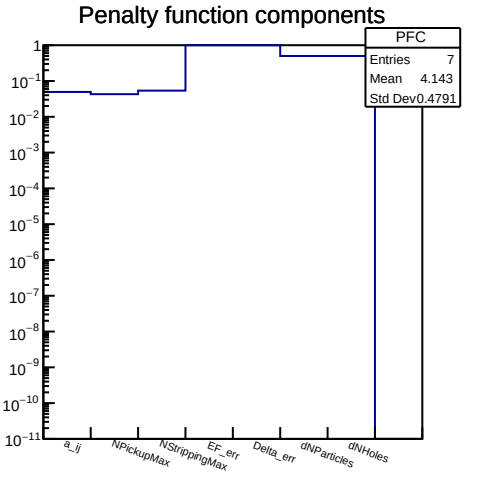
-13298.7 1d5/2 0.618333 0.96

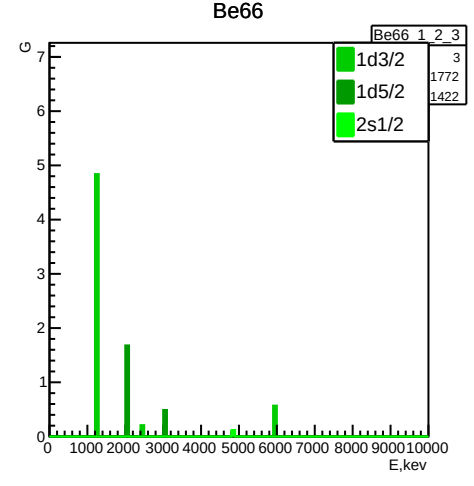
-14740.9 2s1/2 0.57075 0.2615

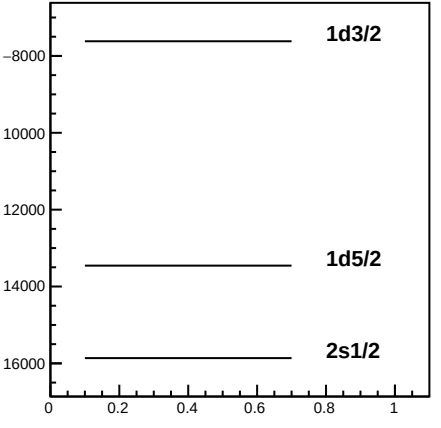
-7722.57 1d3/2 -0.13875 1.5325











Experiment: Wi67 (4) Be66 (6)

neutron transfer

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

E_F: -13537 ± 1771.85 keV

Δ: 3633.54 ± 3406.45 keV

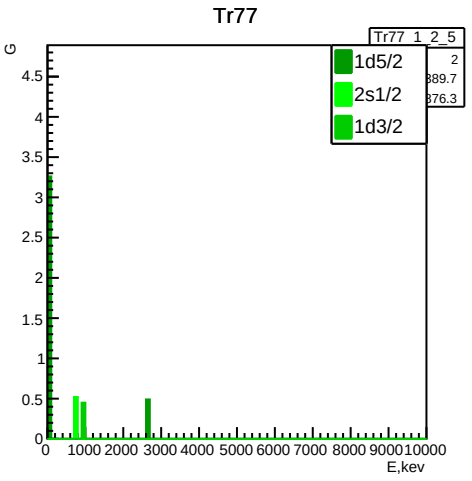
penalty: 9.095e+09

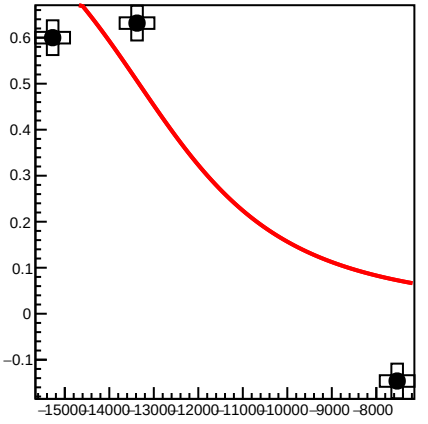
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

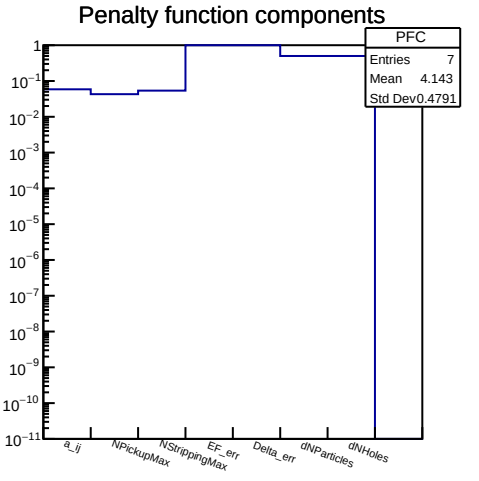
-13456.4 1d5/2 0.594167 0.911667

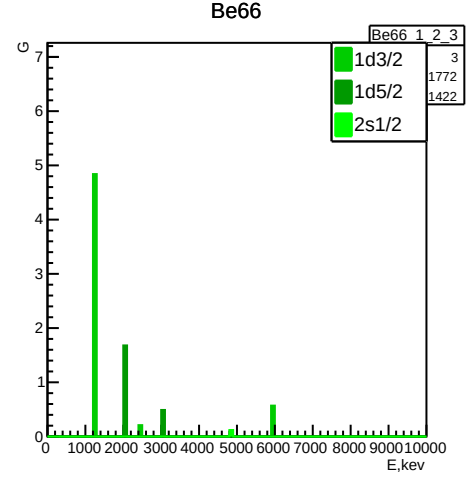
-15862.9 2s1/2 0.645 0.41

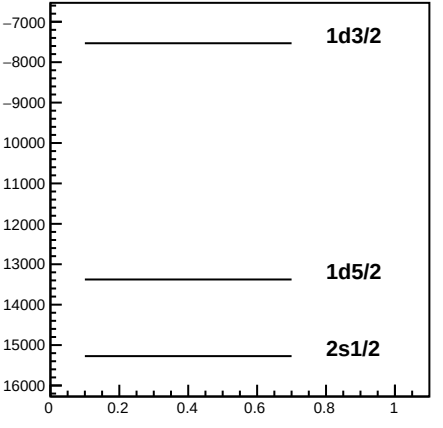
-7618.21 1d3/2 -0.14 1.53











Experiment: Tr77 (4) Be66 (6)

neutron transfer

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

E_F: -13333.9 ± 1776.43 keV

Δ: -3528.83 ± 3509.19 keV

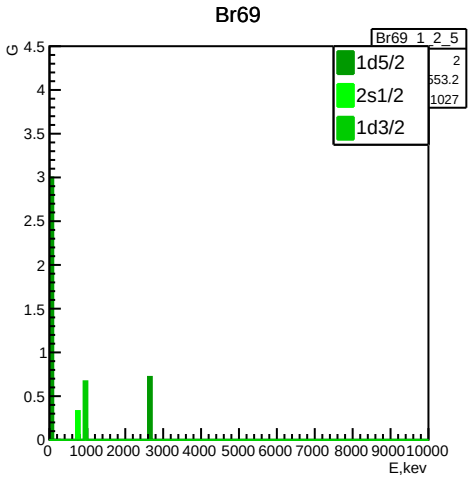
penalty: 9.095e+09

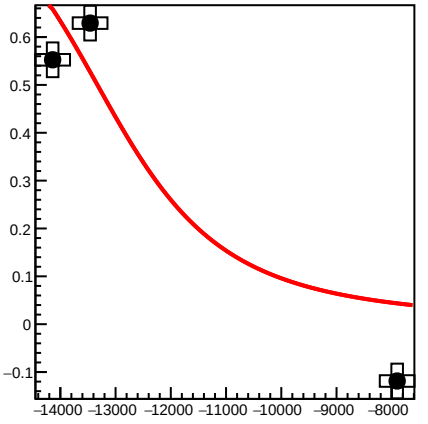
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

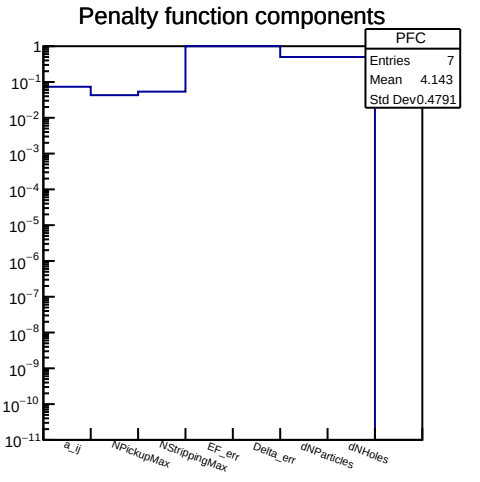
-13377.1 1d5/2 0.631667 0.986667

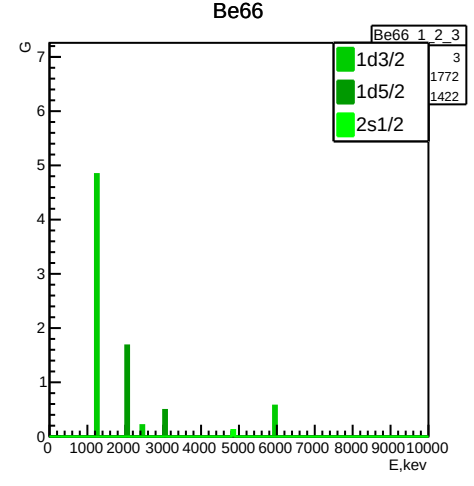
-15273.2 2s1/2 0.6 0.32

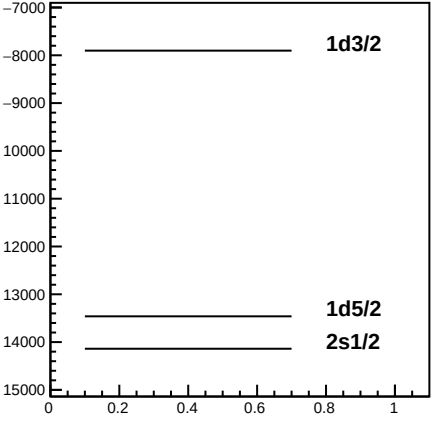
-7531.58 1d3/2 -0.14625 1.5175











Experiment: Br69 (4) Be66 (6)

neutron transfer

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

E_F: -13328.6 ± 876.901 keV

Δ: -2425.3 ± 2419.33 keV

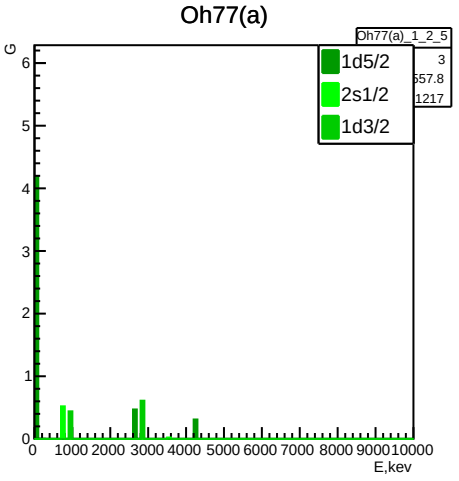
penalty: 9.095e+09

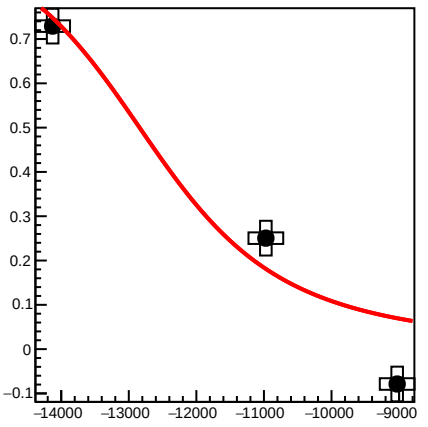
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

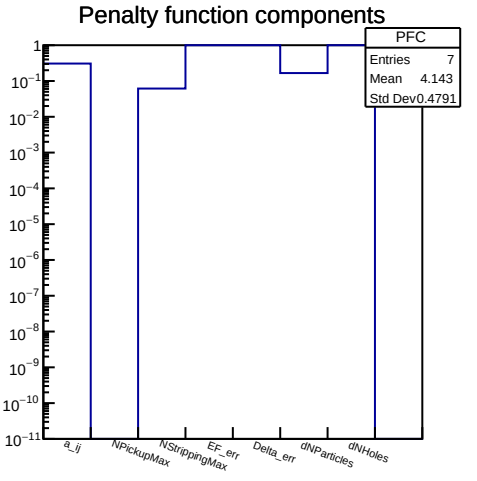
-13461.1 1d5/2 0.629167 0.981667

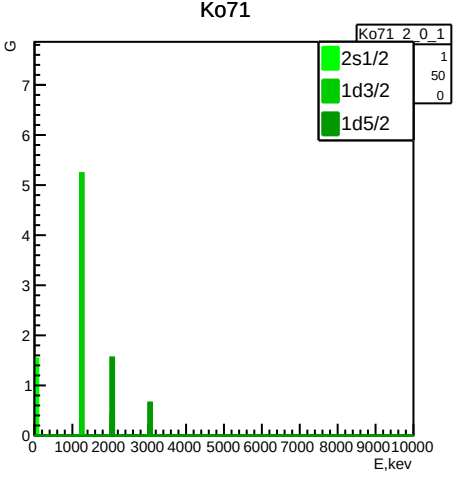
-14139 2s1/2 0.5525 0.225

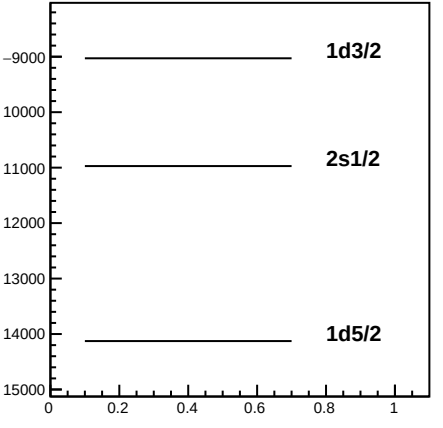
-7902.48 1d3/2 -0.11875 1.5725











Experiment: Oh77(a) (7) Ko71 (5)

neutron transfer

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

E_F: -12840.5 ± 975.51 keV

Δ: -2256.42 ± 1169.11 keV

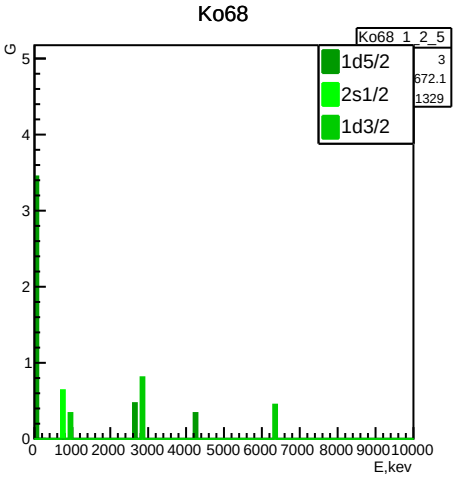
penalty: 9.095e+09

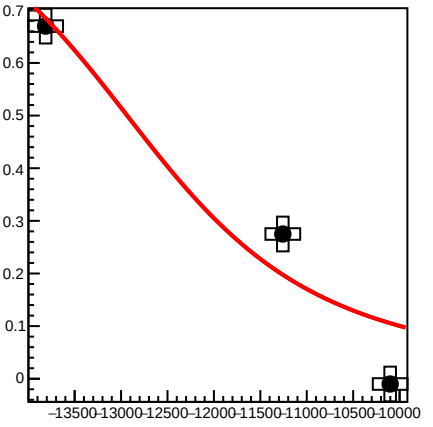
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

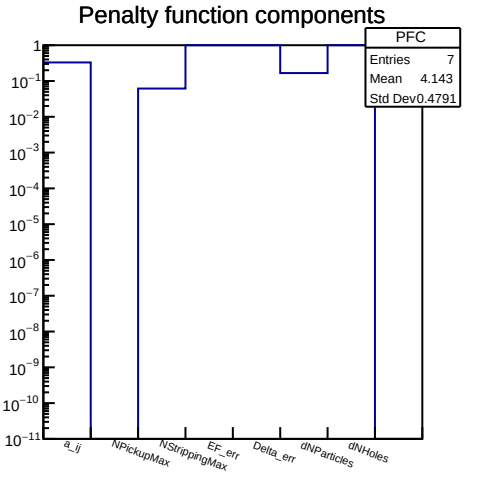
-14126.9 1d5/2 0.729167 1.19833

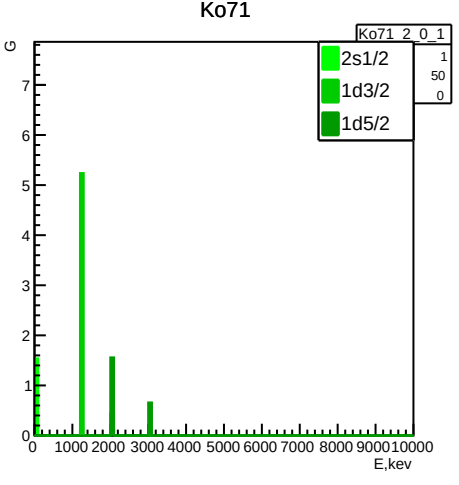
-10971.7 2s1/2 0.2505 1.041

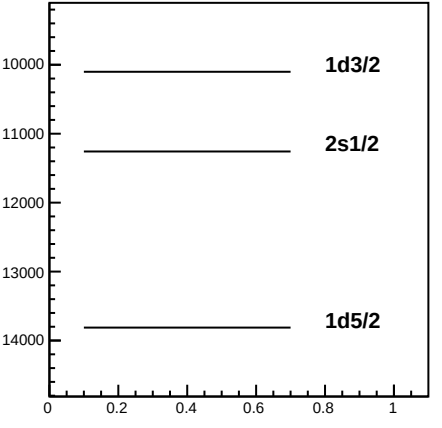
-9028.54 1d3/2 -0.07875 1.6825











Experiment: Ko68 (7) Ko71 (5)

neutron transfer

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

E_F: -12934.5 ± 654.477 keV

Δ: 2207.75 ± 981.786 keV

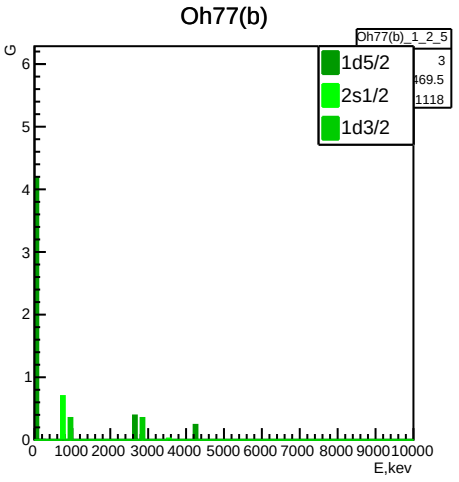
penalty: 9.095e+09

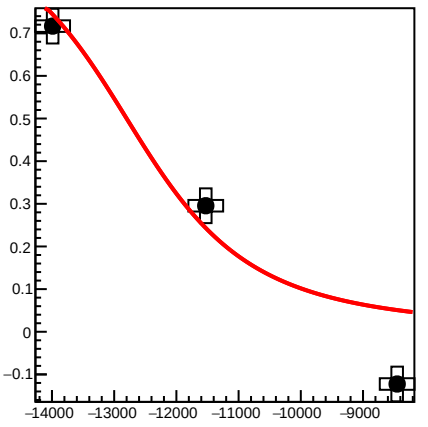
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

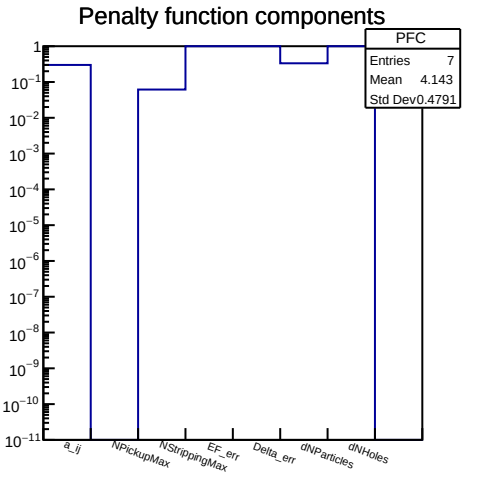
-13812.4 1d5/2 0.67 1.08

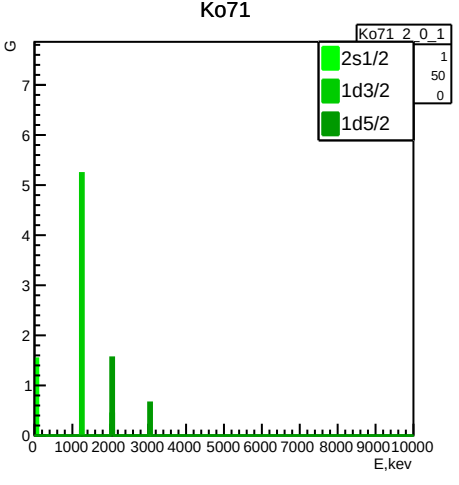
-11257.9 2s1/2 0.275 1.09

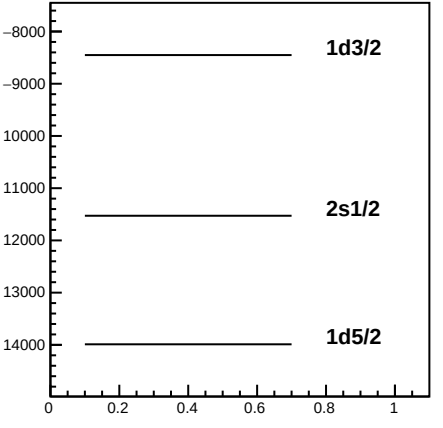
-10101.8 1d3/2 -0.01 1.82











Experiment: Oh77(b) (7) Ko71 (5)

neutron transfer

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

E_F: -12800 ± 903.334 keV

Δ: -2125.71 ± 1219.98 keV

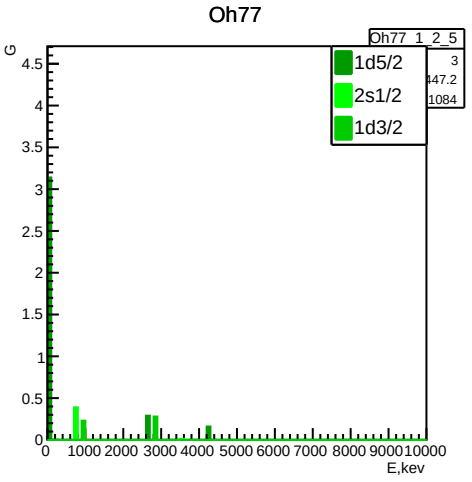
penalty: 9.095e+09

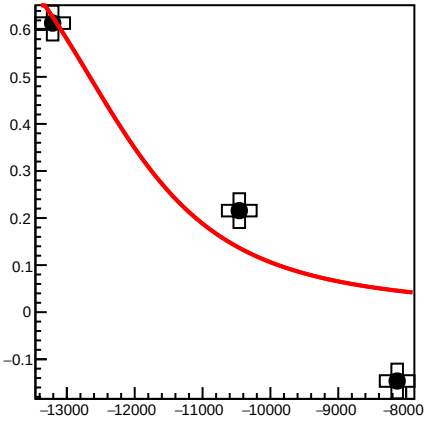
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

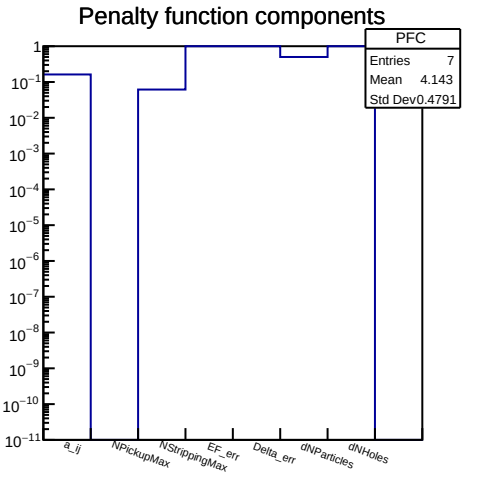
-13989.2 1d5/2 0.716667 1.17333

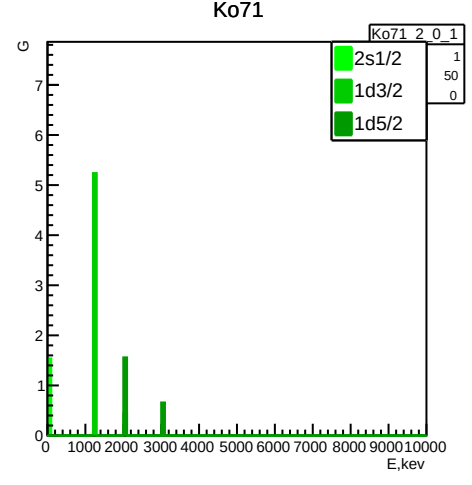
-11527.7 2s1/2 0.2955 1.131

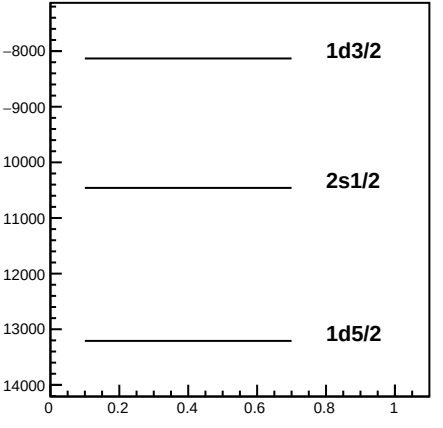
-8451.12 1d3/2 -0.1225 1.595











Experiment: Oh77 (7) Ko71 (5)

neutron transfer

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

E_F: -12661.4 ± 952.14 keV

Δ: 2081.72 ± 1730.2 keV

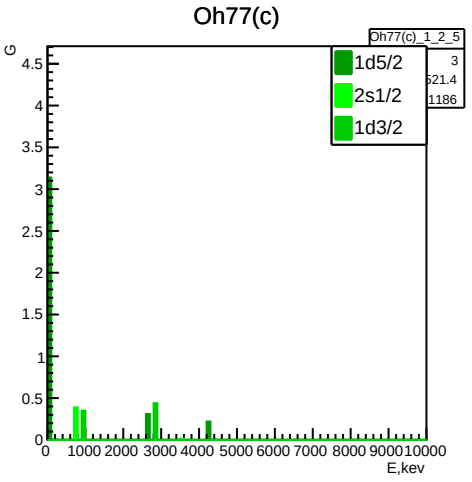
penalty: 9.095e+09

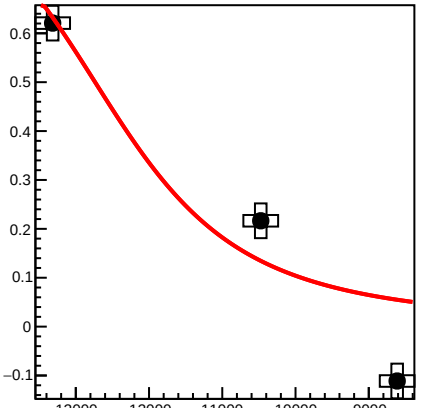
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

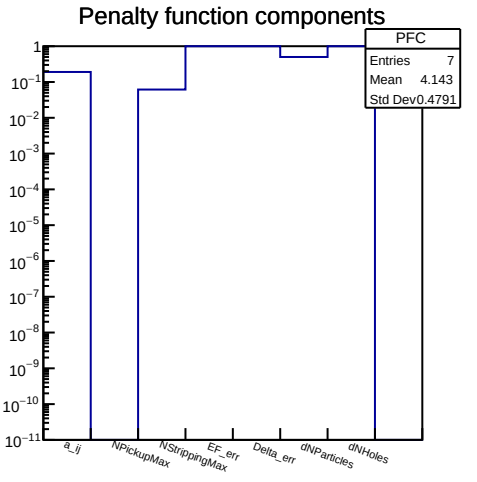
-13209.3 1d5/2 0.614167 0.968333

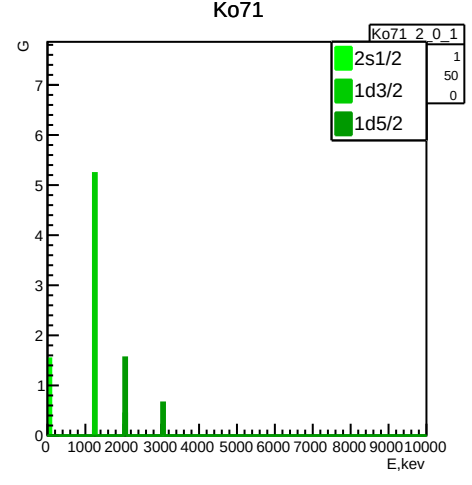
-10459 2s1/2 0.21575 0.9715

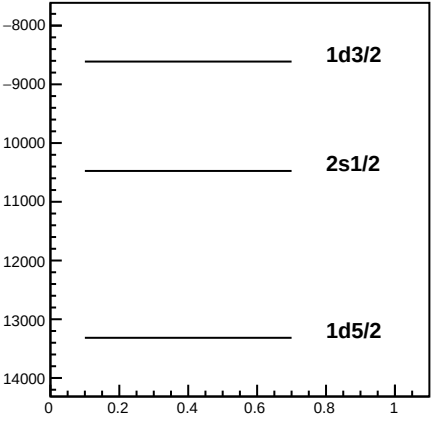
-8132.26 1d3/2 -0.14625 1.5475











Experiment: Oh77(c) (7) Ko71 (5)

neutron transfer

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

E_F: -12736.4 ± 865.012 keV

Δ: 2111.51 ± 1553.85 keV

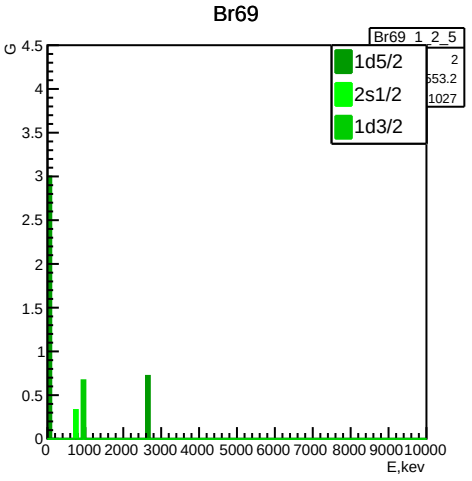
penalty: 9.095e+09

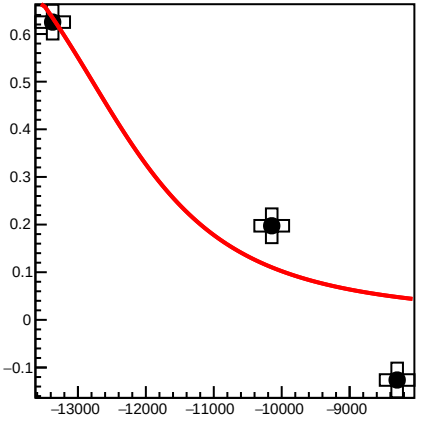
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

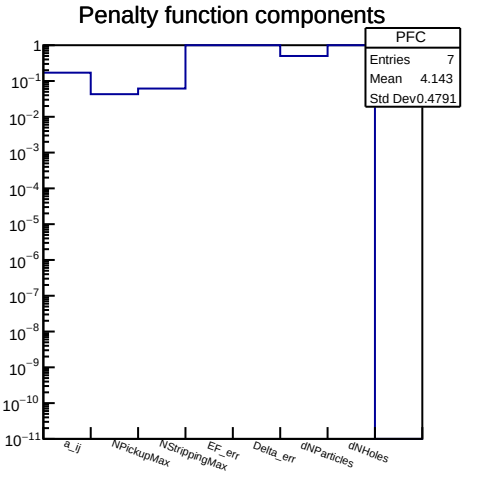
-13315.9 1d5/2 0.620833 0.981667

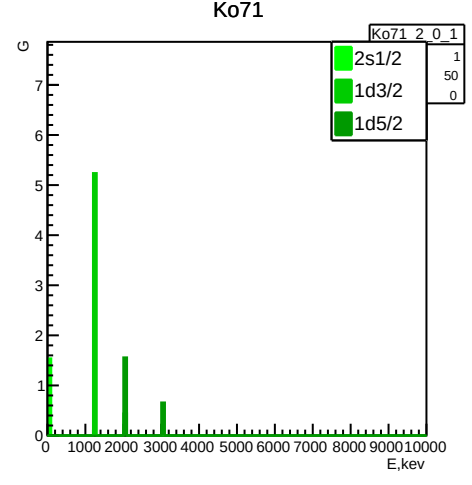
-10474.8 2s1/2 0.2165 0.973

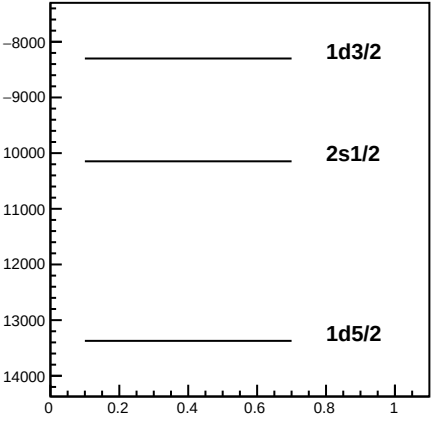
-8612.4 1d3/2 -0.11125 1.6175











Experiment: Br69 (4) Ko71 (5)

neutron transfer

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

E_F: -12783.9 ± 964.898 keV

Δ: 2119.56 ± 1842.81 keV

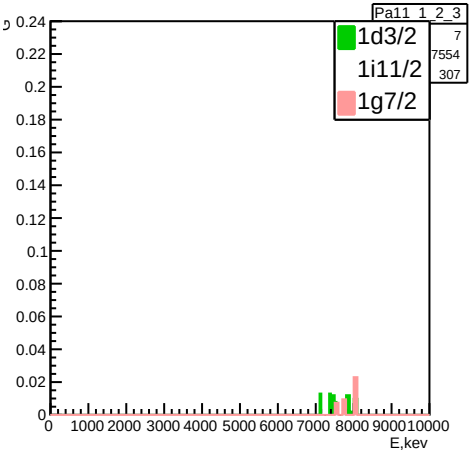
penalty: 9.095e+09

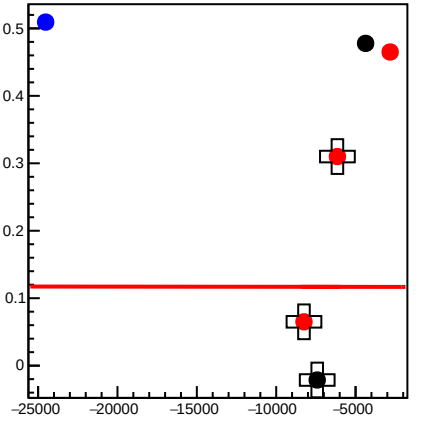
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

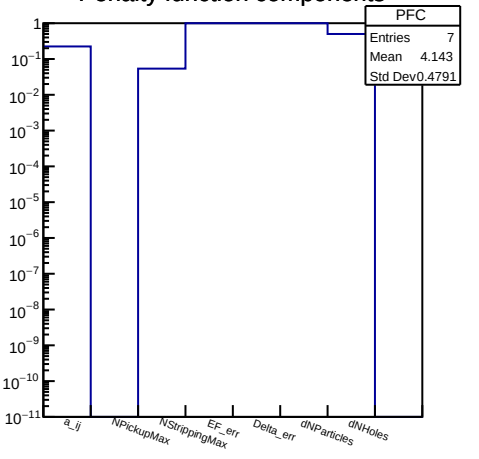
-13372.3 1d5/2 0.625 0.99

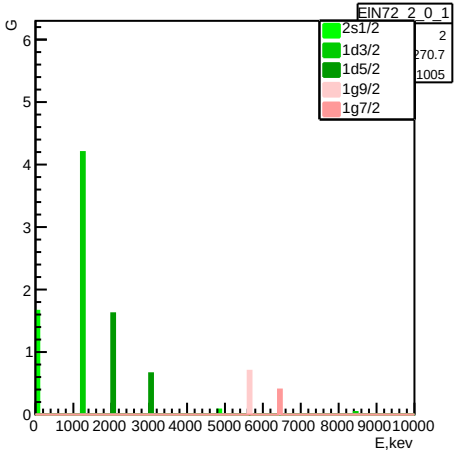
-10147 2s1/2 0.1975 0.935

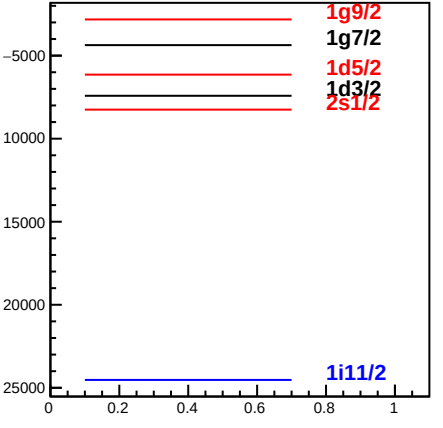
-8300.15 1d3/2 -0.12625 1.5875











Experiment: Pa11 (13) EIN72 (8)

neutron transfer

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

E_F: -6.73162e+06 ± 9.49027e+07 keV

Δ: 5.63839e+06 ± 7.90996e+07 keV

penalty: 9.095e+09

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

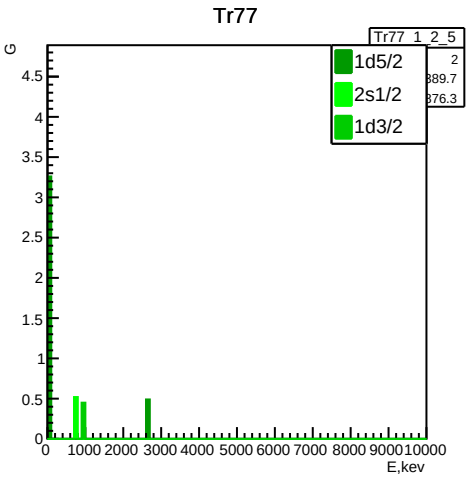
-7417.06 1d3/2 -0.0212875 1.07743

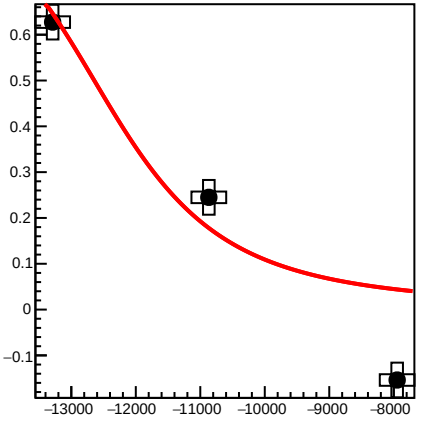
-24525.5 1i11/2 0.509333 0.87

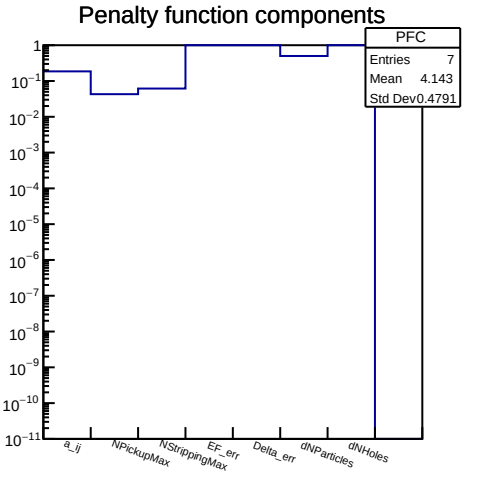
-4366.96 1g7/2 0.4778 0.38

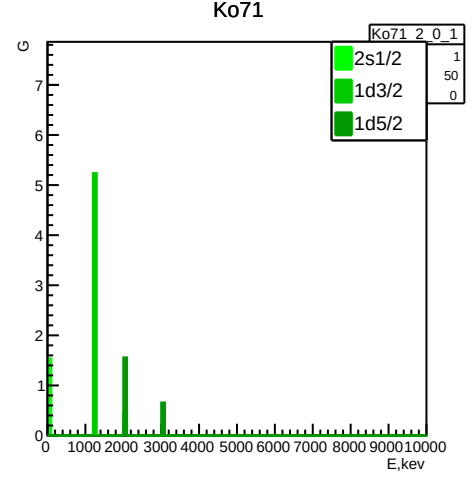
-8250.33 2s1/2 0.065 3.21143e-322

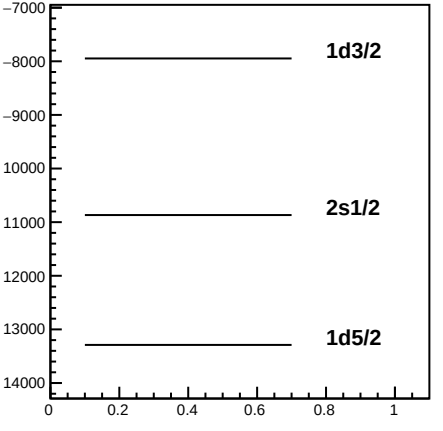
-6143.62 1d5/2 0.31 0.224192











Experiment: Tr77 (4) Ko71 (5)

neutron transfer

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

E_F: -12643.9 ± 945.215 keV

Δ: 2109.89 ± 1564.01 keV

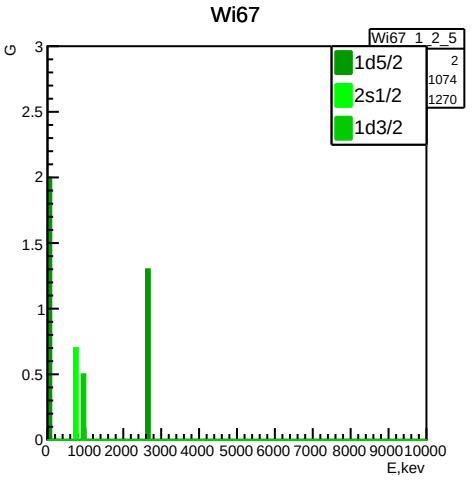
penalty: 9.095e+09

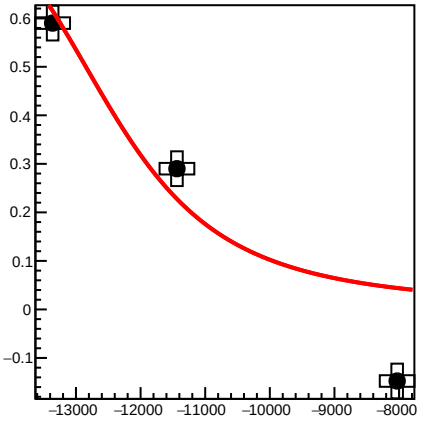
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

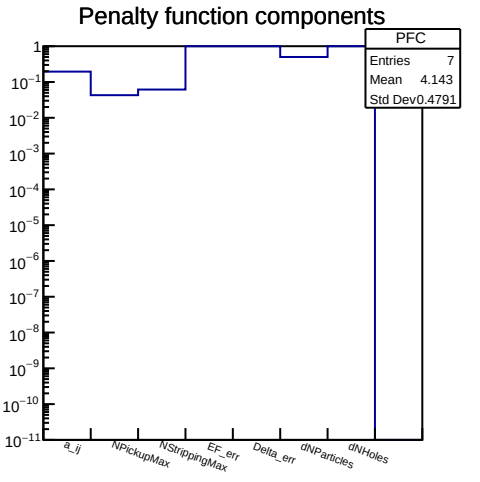
-13289.4 1d5/2 0.6275 0.995

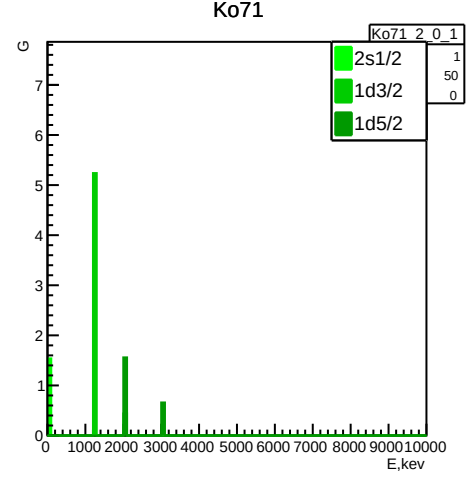
-10867.6 2s1/2 0.245 1.03

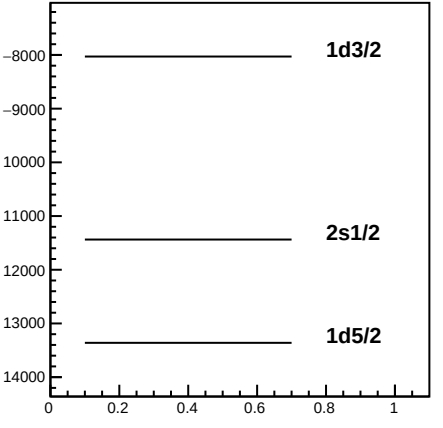
-7947.15 1d3/2 -0.15375 1.5325











Experiment: Wi67 (4) Ko71 (5)

neutron transfer

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

E_F: -12846.6 ± 842.896 keV

Δ: -2169.74 ± 1560.79 keV

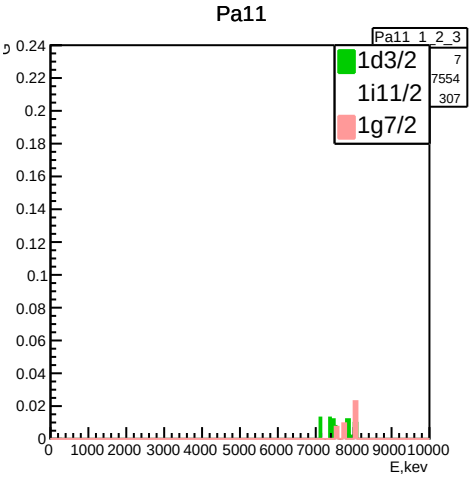
penalty: 9.095e+09

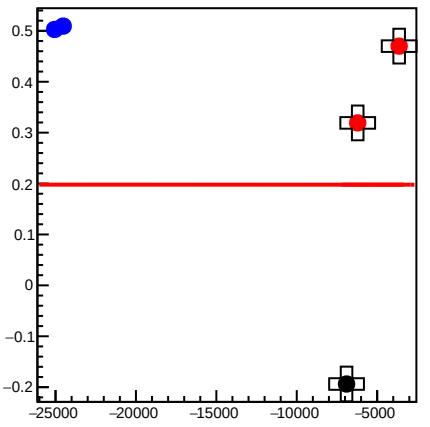
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

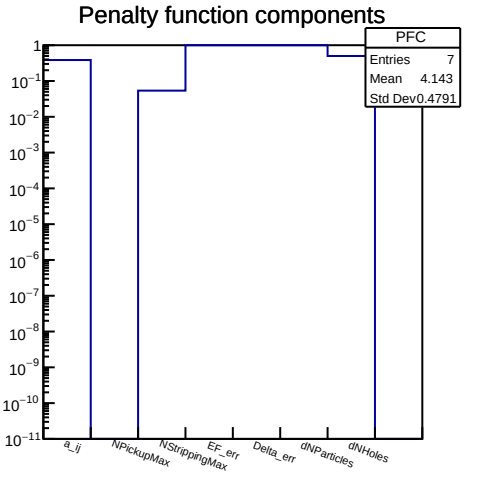
-13360.9 1d5/2 0.59 0.92

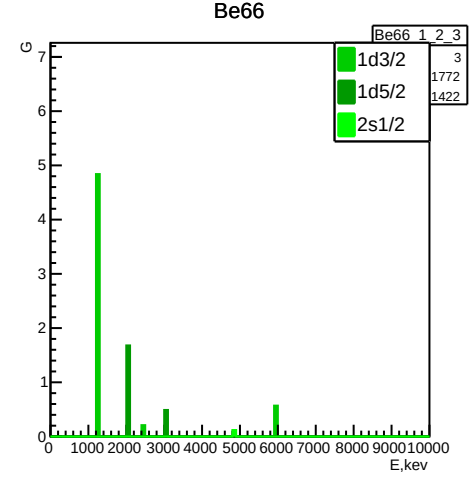
-11437.4 2s1/2 0.29 1.12

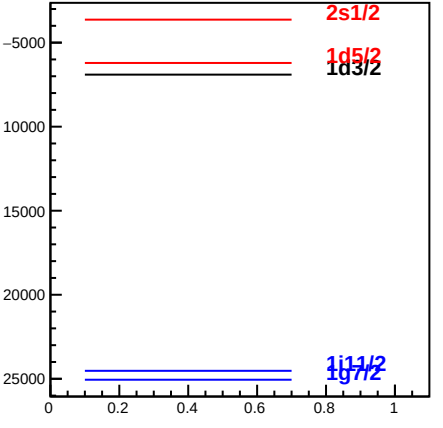
-8029.59 1d3/2 -0.1475 1.545











Experiment: Pa11 (13) Be66 (6)

neutron transfer

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

E_F: -5.41018e+07 ± 1.27137e+09 keV

Δ: -7.13136e+07 ± 1.67028e+09 keV

penalty: 9.095e+09

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

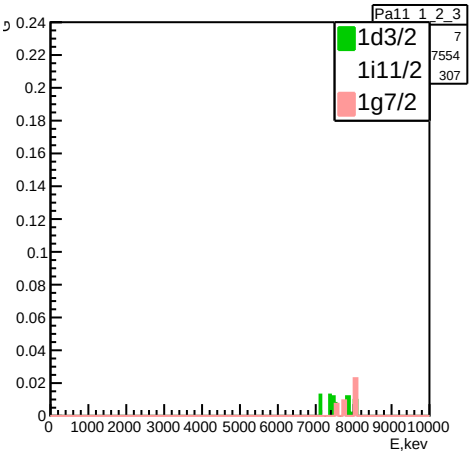
-6903.78 1d3/2 -0.193788 1.42243

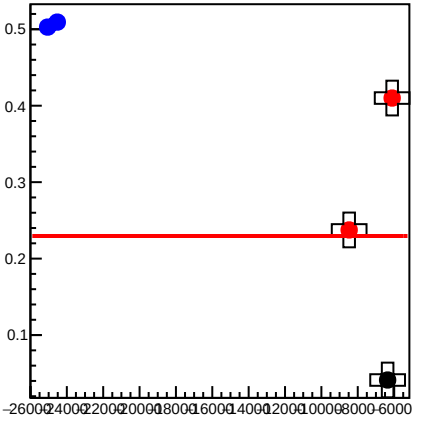
-24525.5 1i11/2 0.509333 0.361667

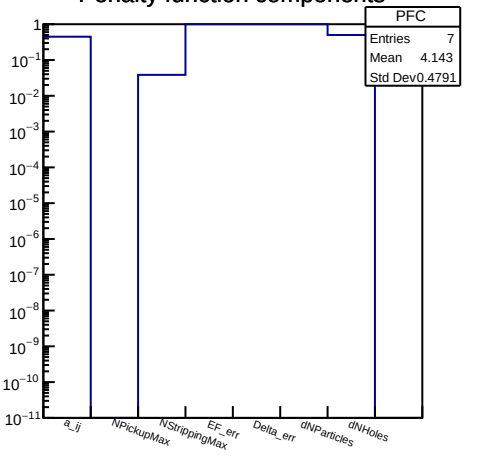
-25055.3 1g7/2 0.5028 0.06

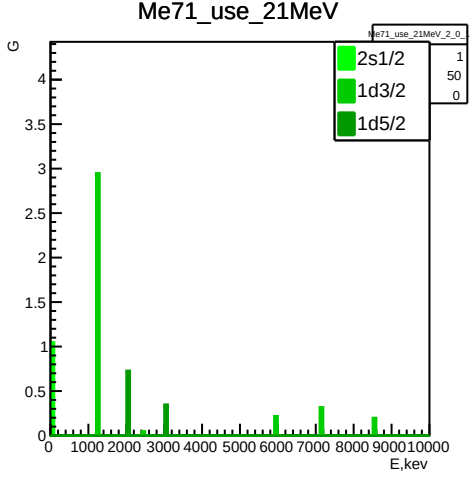
-6209.72 1d5/2 0.319167 5.58294e-322

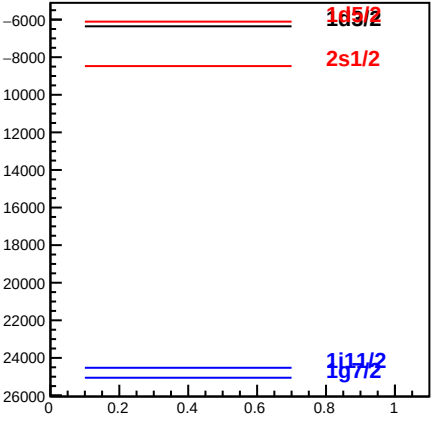
-3632.67 2s1/2 0.47 6.92655e-310











Experiment: Pa11 (13) Me71_use_21MeV (8)

neutron transfer

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

E_F: -7.65907e+08 ± 1.47733e+10 keV

Δ: -1.19109e+09 ± 2.29744e+10 keV

penalty: 9.095e+09

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

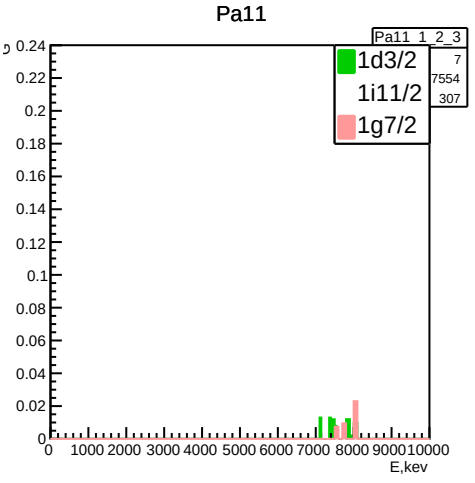
-6357.04 1d3/2 0.0412125 0.952425

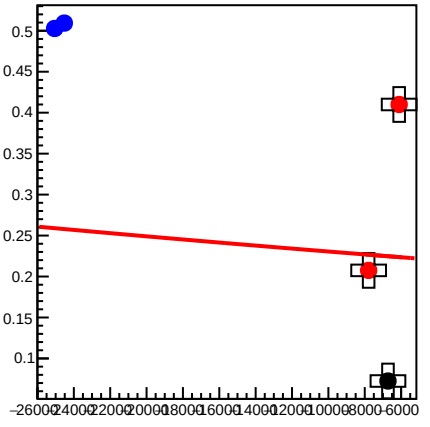
-24525.5 1i11/2 0.509333 0.525

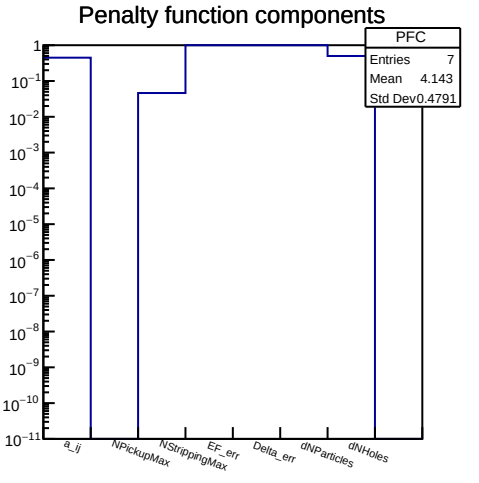
-25055.3 1g7/2 0.5028 0.18

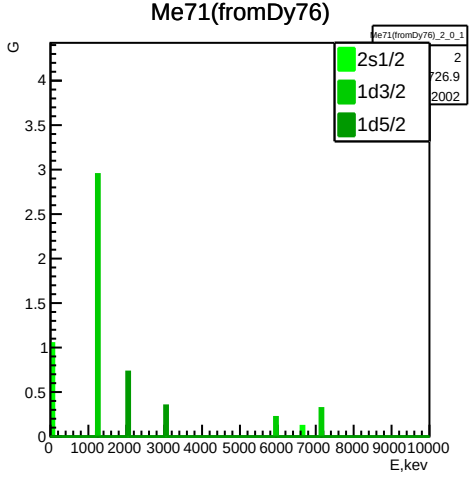
-8472.87 2s1/2 0.2375 5.58294e-322

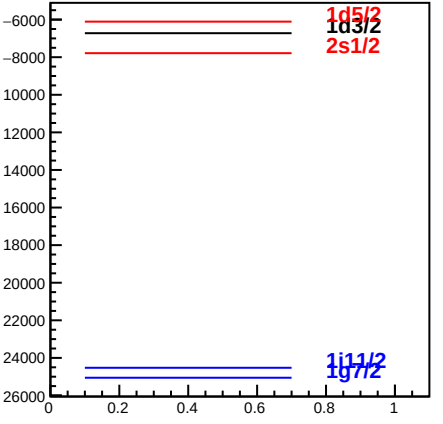
-6107.7 1d5/2 0.41 6.92655e-310











Experiment: Pa11 (13) Me71(fromDy76) (7)

neutron transfer

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

E_F: -117429 ± 1.3291e+06 keV

Δ: 167904 ± 1.97071e+06 keV

penalty: 9.095e+09

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

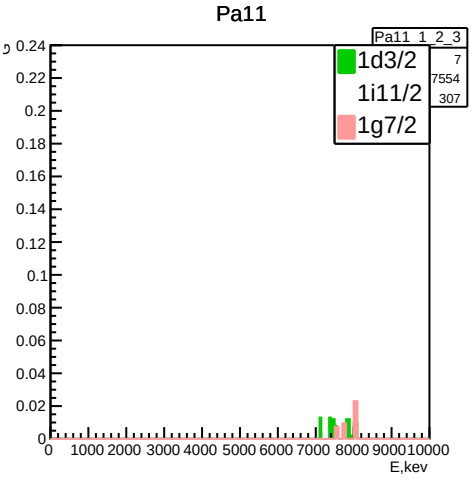
-6723.34 1d3/2 0.0724625 0.889925

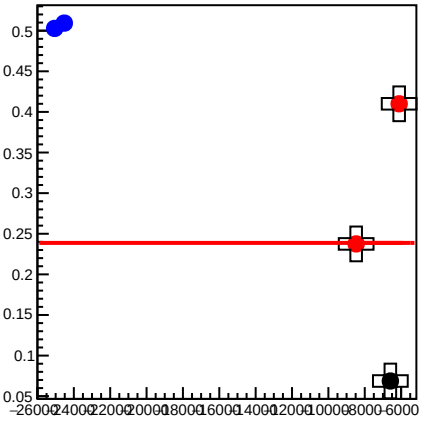
-24525.5 1i11/2 0.509333 0.585

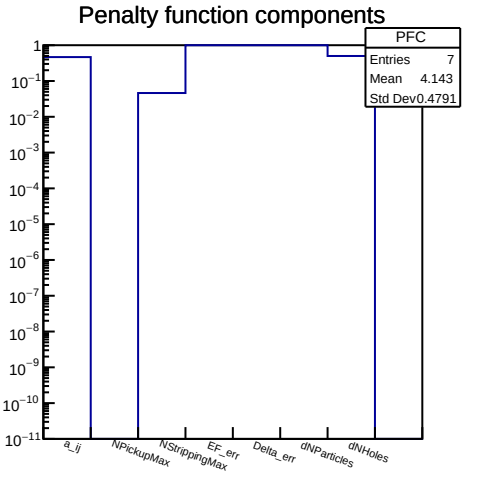
-25055.3 1g7/2 0.5028 0.18

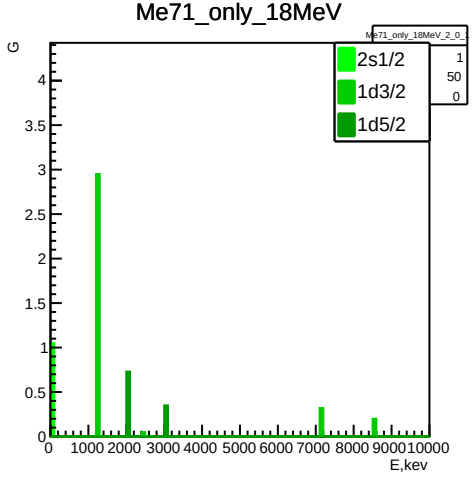
-7786.11 2s1/2 0.2075 5.58294e-322

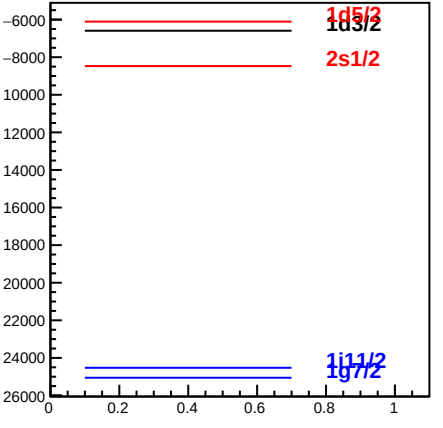
-6107.7 1d5/2 0.41 6.92655e-310











Experiment: Pa11 (13) Me71_only_18MeV (7)

neutron transfer

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

E_F: -9.7668e+08 ± 1.06701e+10 keV

Δ: -1.59367e+09 ± 1.74205e+10 keV

penalty: 9.095e+09

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

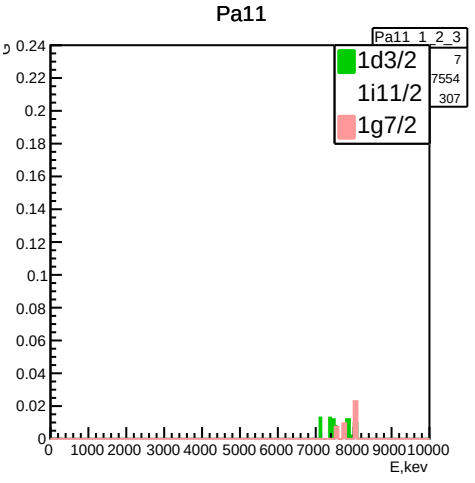
-6591.84 1d3/2 0.0687125 0.897425

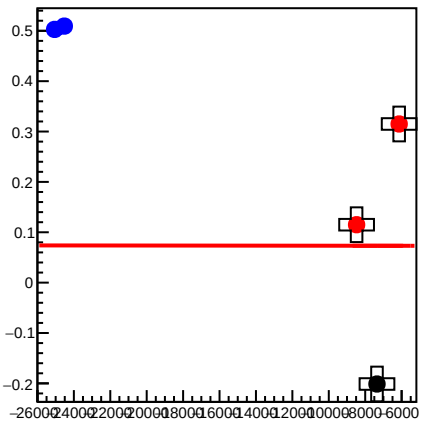
-24525.5 1i11/2 0.509333 0.525

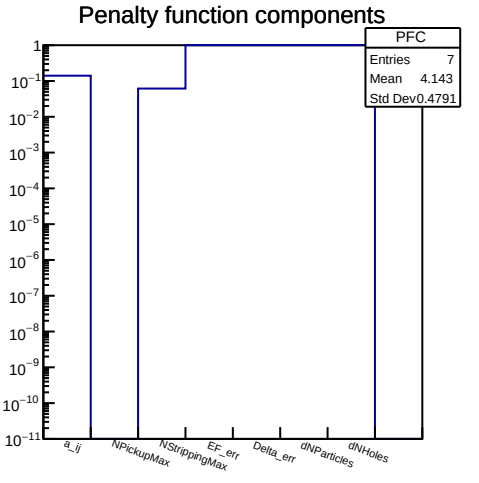
-25055.3 1g7/2 0.5028 0.18

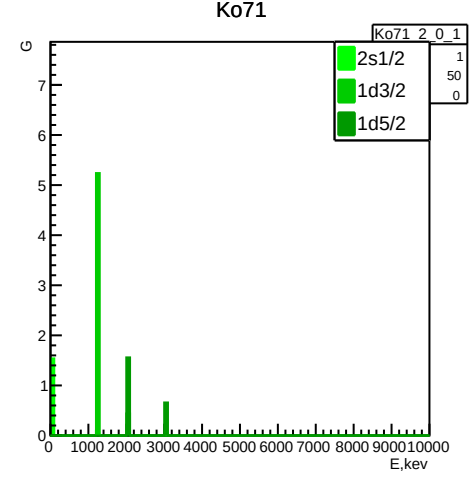
-8472.87 2s1/2 0.2375 2.29741e-321

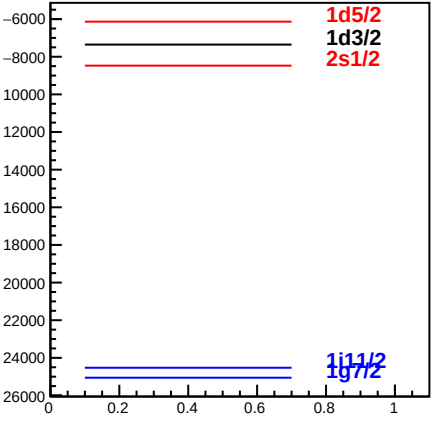
-6107.7 1d5/2 0.41 6.92655e-310











Experiment: Pa11 (13) Ko71 (5)

neutron transfer

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

E_F: -3.13342e+06 ± 9.3412e+07 keV

Δ: 1.90775e+06 ± 5.55249e+07 keV

penalty: 9.095e+09

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

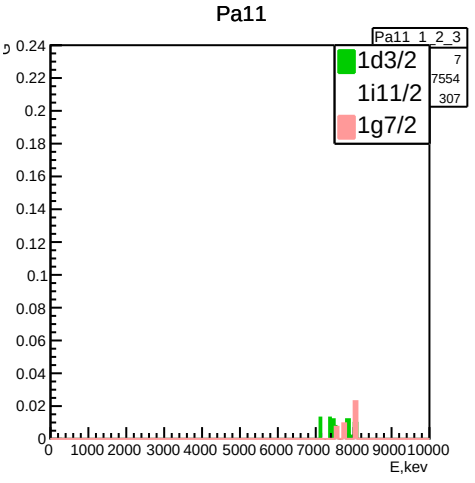
-7353.4 1d3/2 -0.201288 1.43743

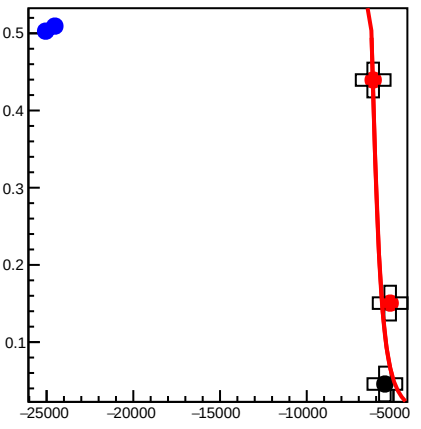
-24525.5 1i11/2 0.509333 0.77

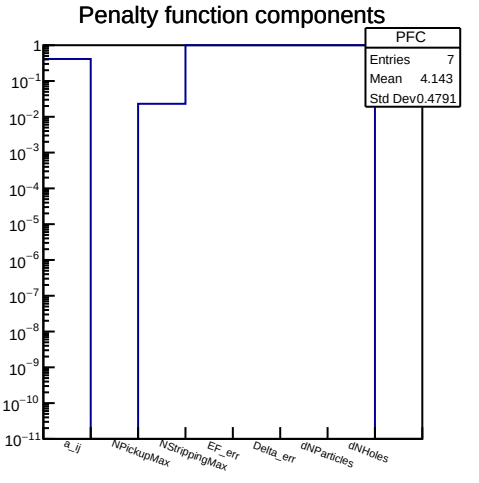
-25055.3 1g7/2 0.5028 0.37

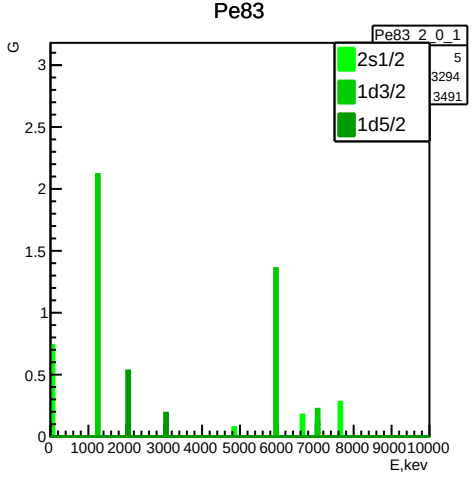
-8472.87 2s1/2 0.115 5.58294e-322

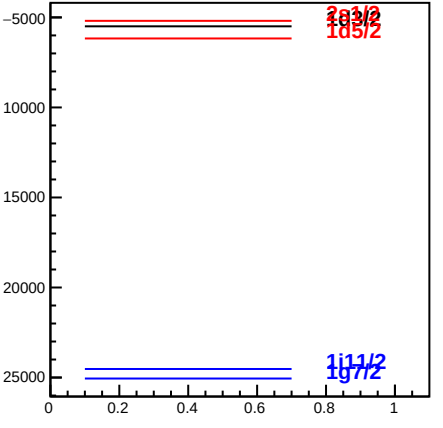
-6135.5 1d5/2 0.315 6.92655e-310











Experiment: Pa11 (13) Pe83 (10)

neutron transfer

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

E_F: -6268.78 ± 187.304 keV

Δ: 621.281 ± 471.808 keV

penalty: 9.095e+09

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

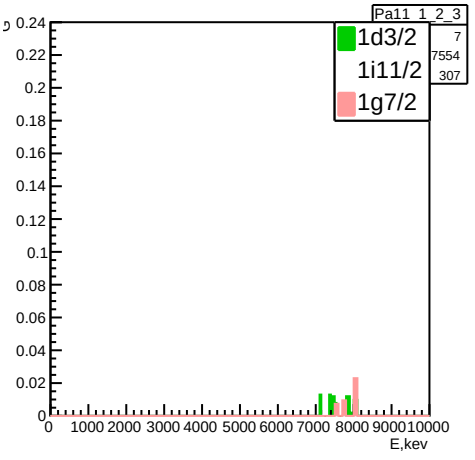
-5495.14 1d3/2 0.0457125 0.943425

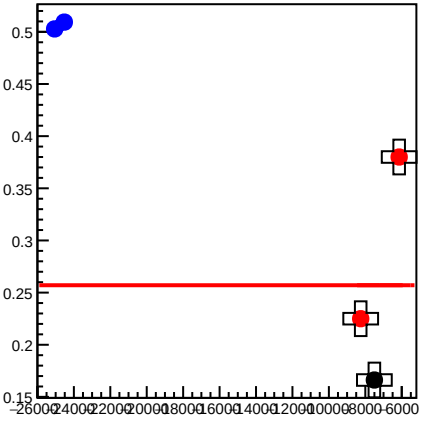
-24525.5 1i11/2 0.509333 0.699

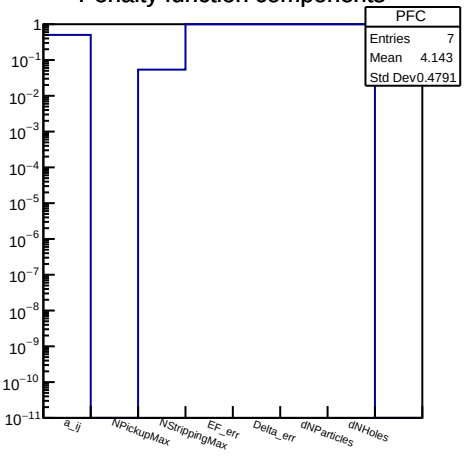
-25055.3 1g7/2 0.5028 0.121

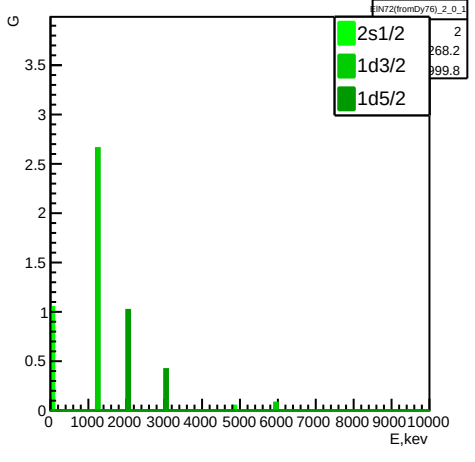
-5190.57 2s1/2 0.1505 5.58294e-322

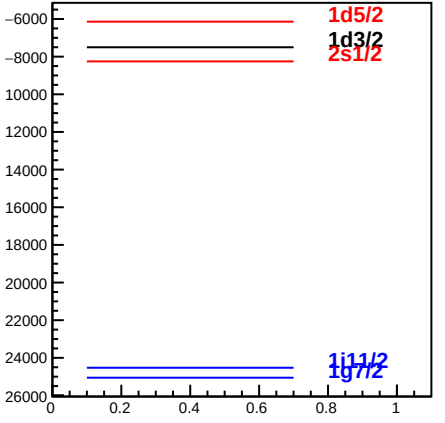
-6169.59 1d5/2 0.4395 6.92655e-310











Experiment: Pa11 (13) ElN72(fromDy76) (6)

neutron transfer

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

E_F: -2.1964e+09 ± 1.68874e+10 keV

Δ: -3.95123e+09 ± 3.04066e+10 keV

penalty: 9.095e+09

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

-7501.83 1d3/2 0.166212 0.702425

-24525.5 1i11/2 0.509333 0.55

-25055.3 1g7/2 0.5028 0.24

-8252.86 2s1/2 0.225 4.11557e-321

-6141.35 1d5/2 0.38 0.257072