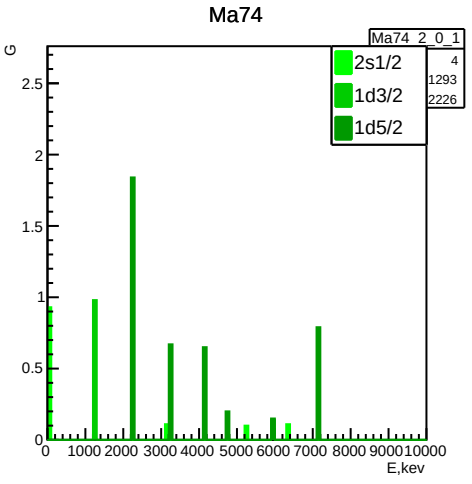
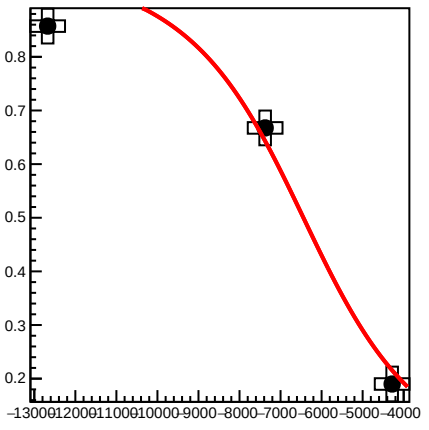
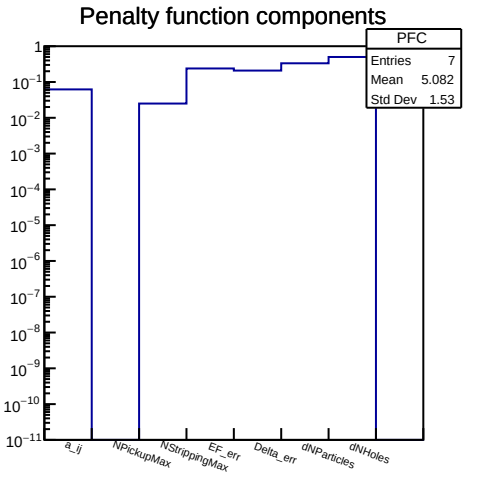
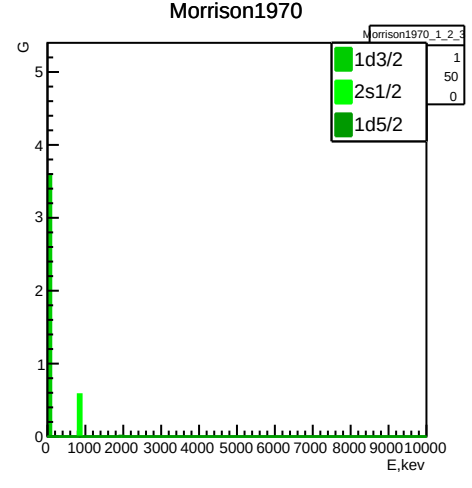
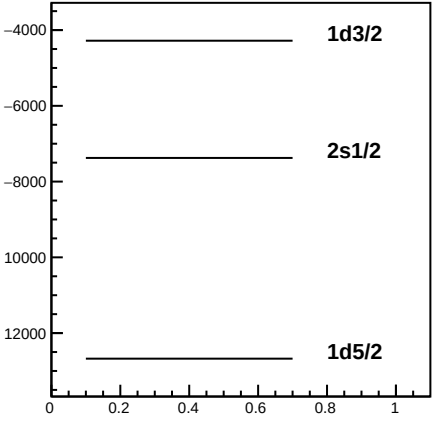










Experiment: Ma74 (12) Morrison1970 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6442.89 ± 562.681 keV

Δ: 3124.13 ± 1368.94 keV

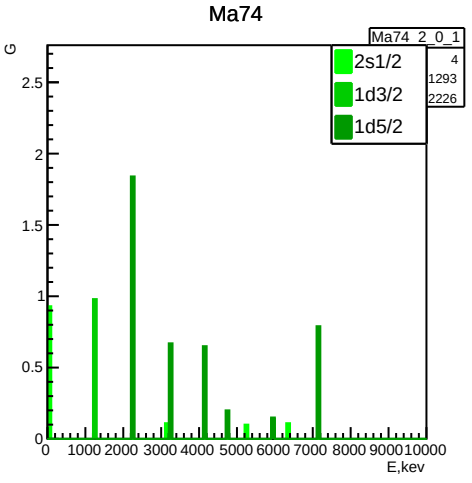
penalty: 0.263053

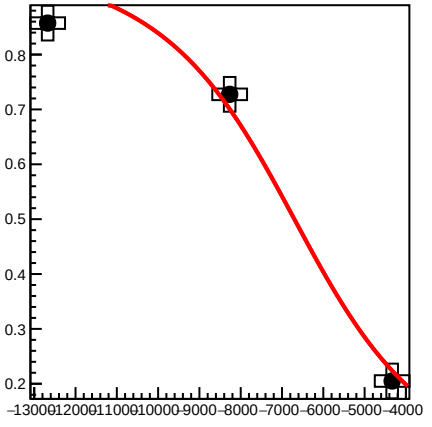
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

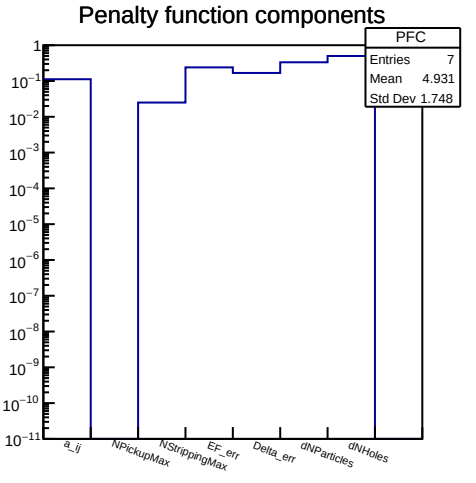
-7375.56 2s1/2 0.6675 0.915

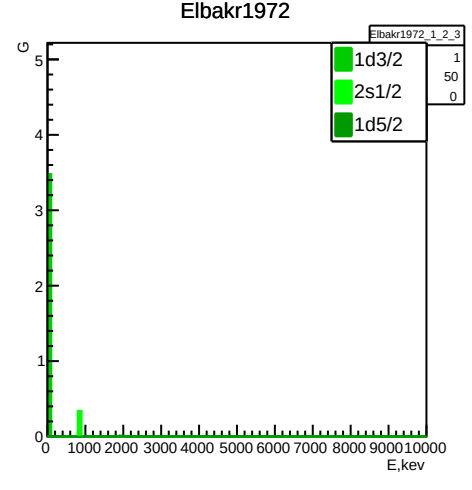
-4280.69 1d3/2 0.19 1.18

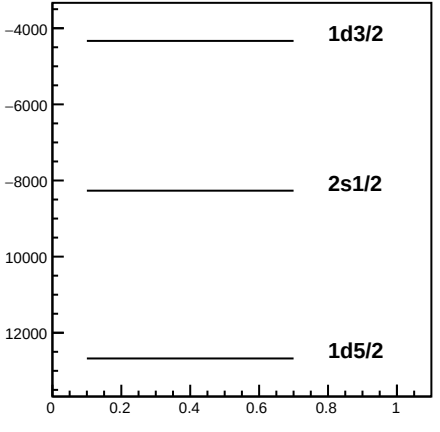
-12675 1d5/2 0.857333 0.718667











Experiment: Ma74 (12) Elbakr1972 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6701.18 ± 566.003 keV

Δ: -3573.33 ± 1102.13 keV

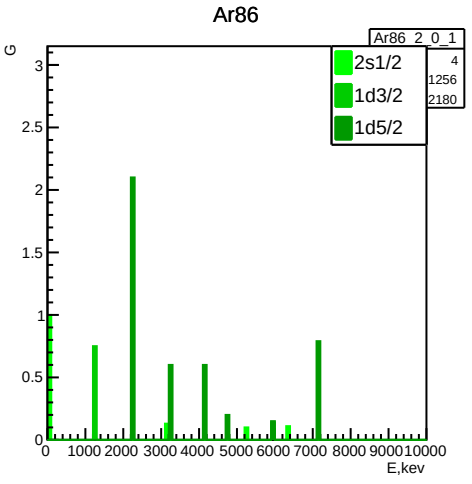
penalty: 0.265121

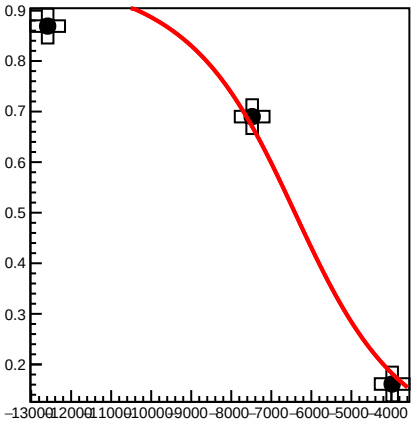
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

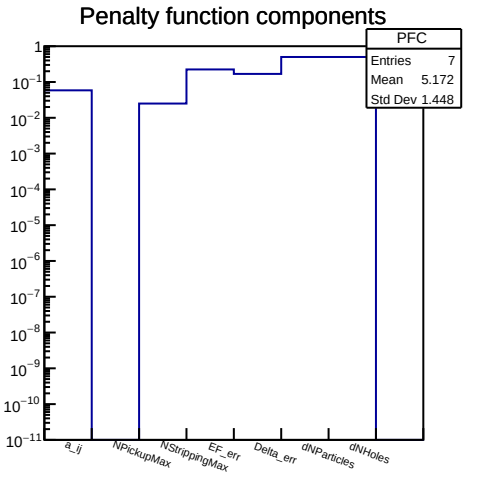
-8267.42 2s1/2 0.7275 0.795

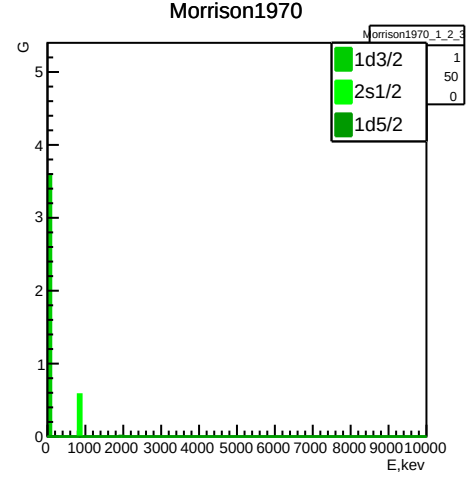
-4332.95 1d3/2 0.205 1.15

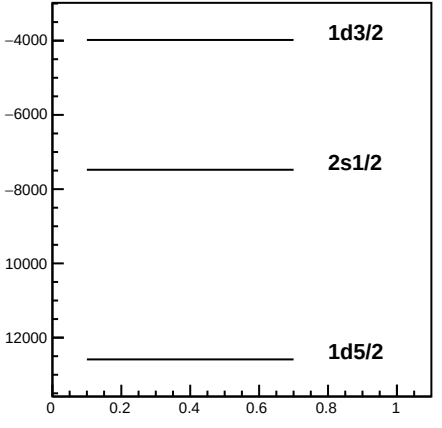
-12675 1d5/2 0.857333 0.718667











Experiment: Ar86 (12) Morrison1970 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6410.38 ± 528.561 keV

Δ: 2946.31 ± 1104.59 keV

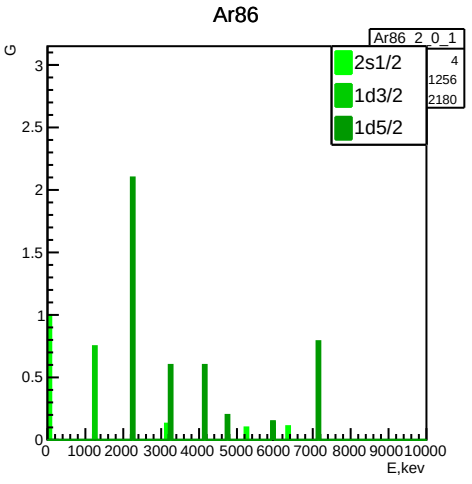
penalty: 0.283878

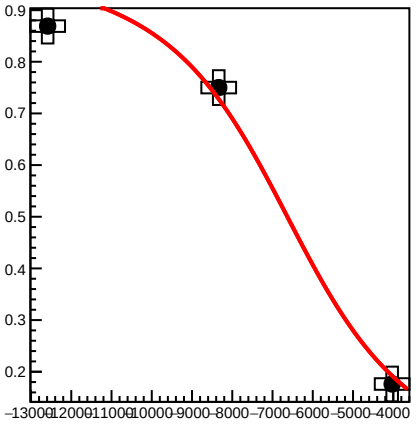
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

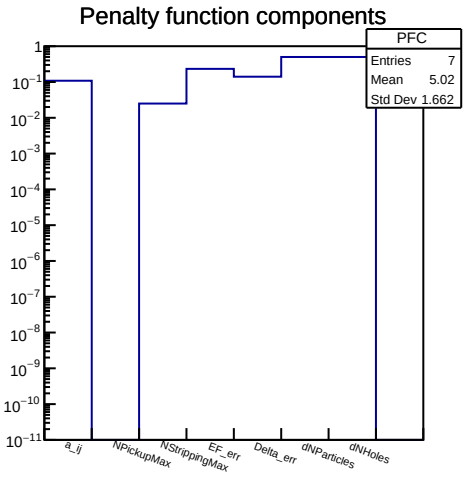
-7477.94 2s1/2 0.69 0.96

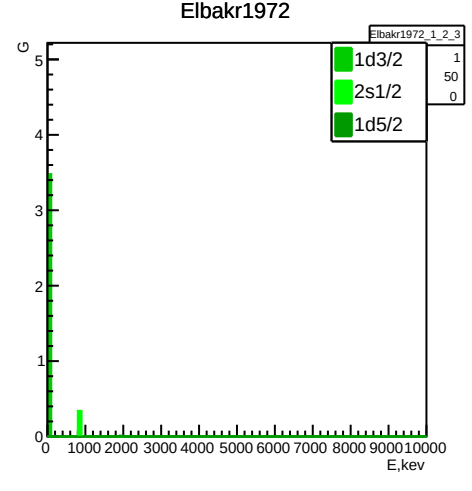
-3981.1 1d3/2 0.16125 1.1225

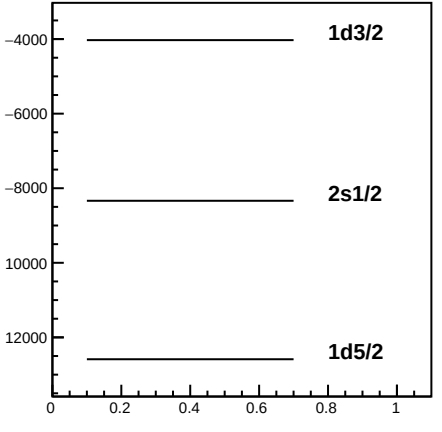
-12586.7 1d5/2 0.869 0.742











Experiment: Ar86 (12) Elbakr1972 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6631.42 ± 548.657 keV

Δ: -3330.01 ± 922.751 keV

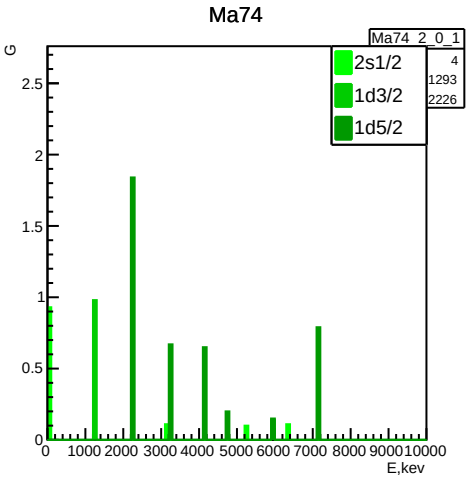
penalty: 0.289806

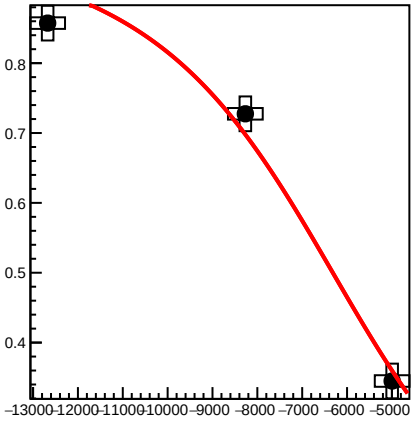
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

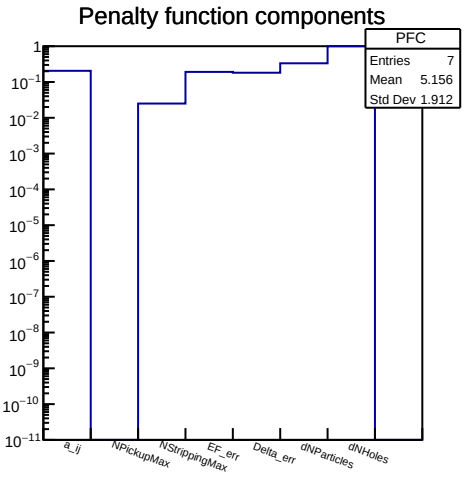
-8336.65 2s1/2 0.75 0.84

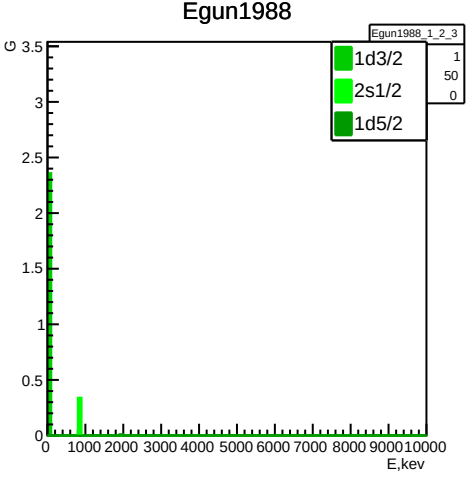
-4027.88 1d3/2 0.17625 1.0925

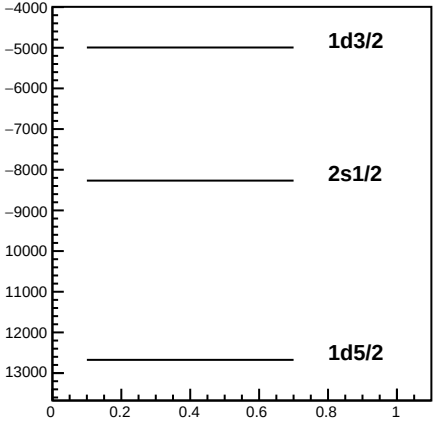
-12586.7 1d5/2 0.869 0.742











Experiment: Ma74 (12) Egun1988 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6317.55 ± 451.235 keV

Δ: 4524.95 ± 1191.42 keV

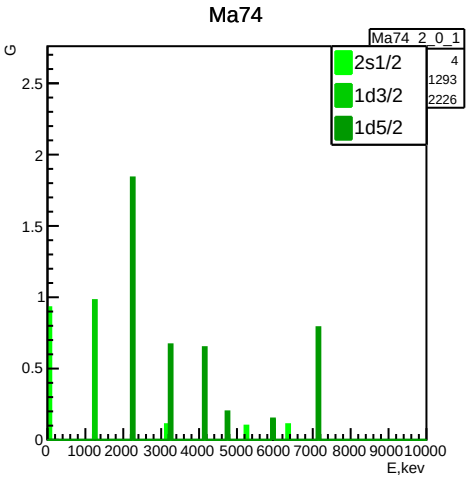
penalty: 0.372472

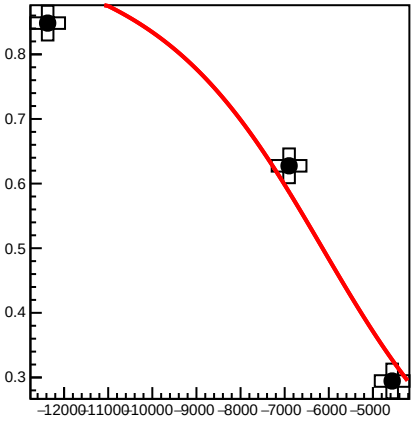
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

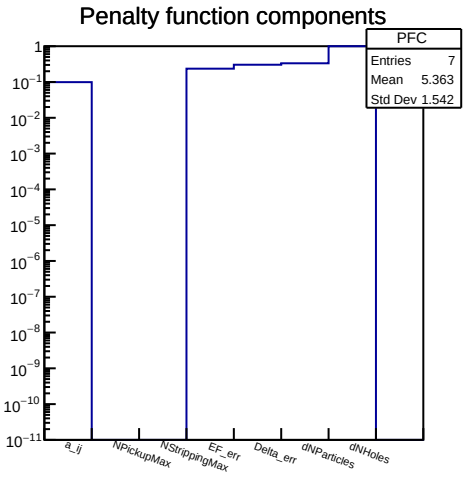
-8267.42 2s1/2 0.7275 0.795

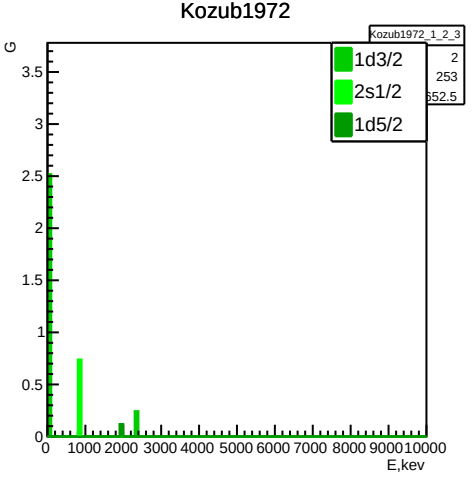
-4994.47 1d3/2 0.345 0.87

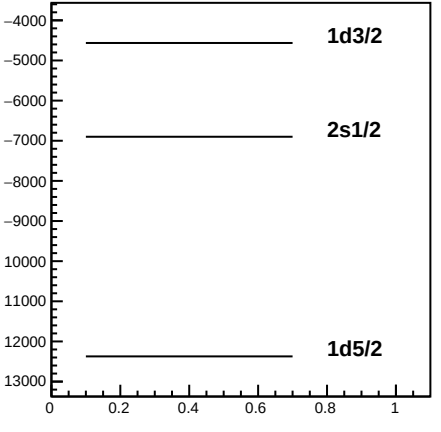
-12675 1d5/2 0.857333 0.718667











Experiment: Ma74 (12) Kozub1972 (4)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6142.69 ± 555.473 keV

Δ: -4289.94 ± 1993.69 keV

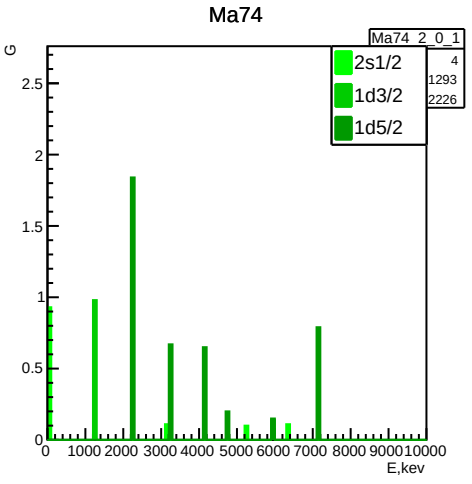
penalty: 0.379232

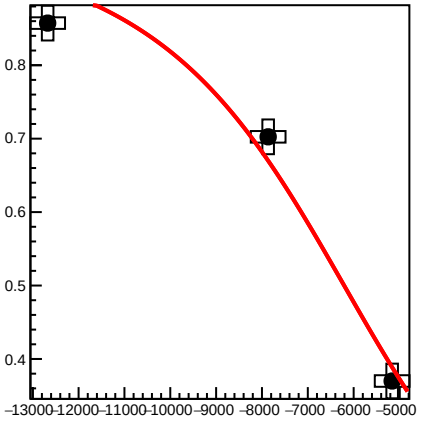
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

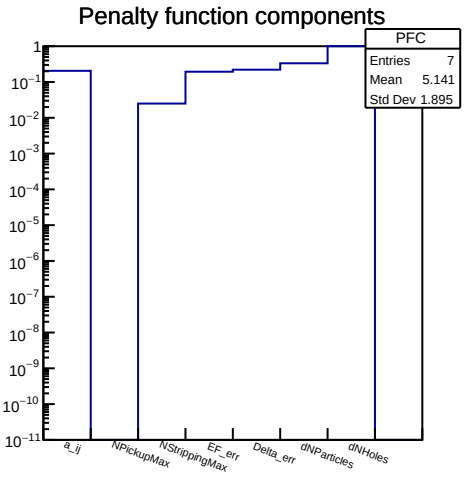
-6900.49 2s1/2 0.6275 0.995

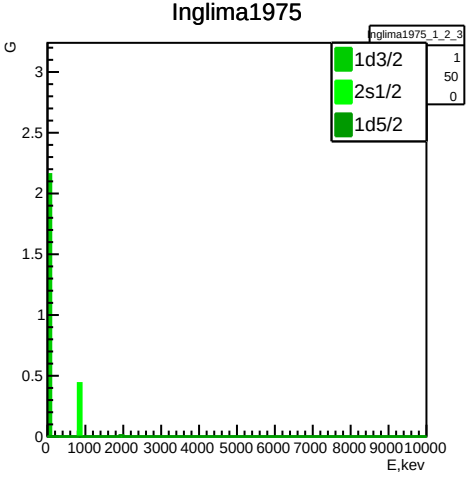
-4564.11 1d3/2 0.2945 0.971

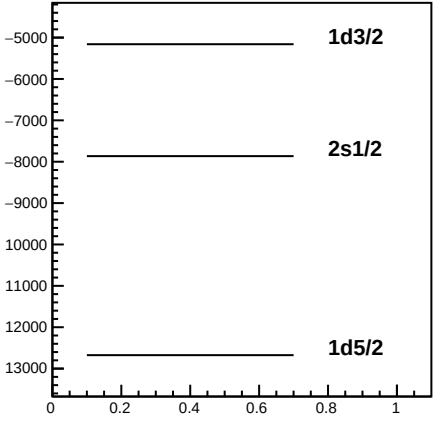
-12372.4 1d5/2 0.848333 0.736667











Experiment: Ma74 (12) Inglima1975 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6207.37 ± 457.285 keV

Δ: -4585.91 ± 1449.13 keV

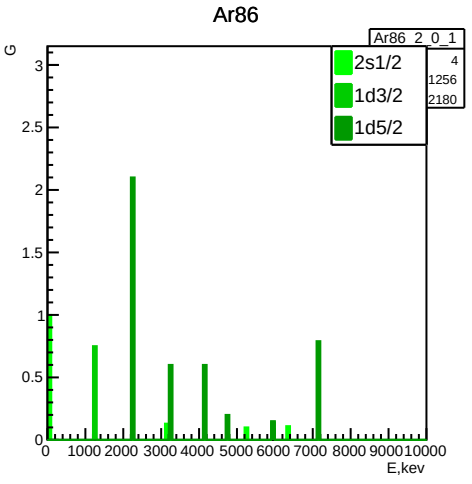
penalty: 0.380517

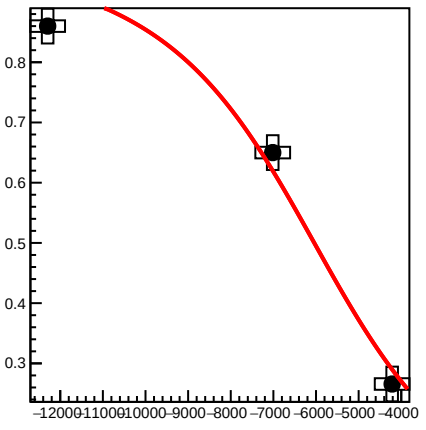
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

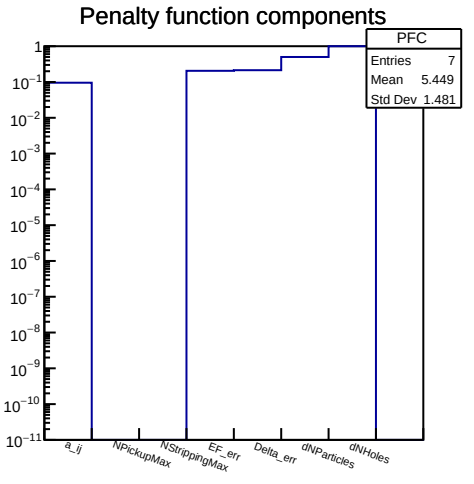
-7865.03 2s1/2 0.7025 0.845

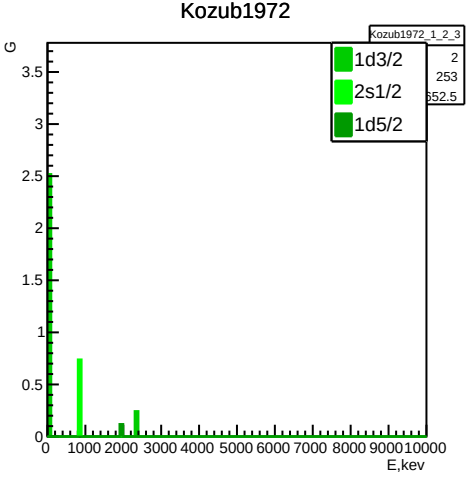
-5160.14 1d3/2 0.37 0.82

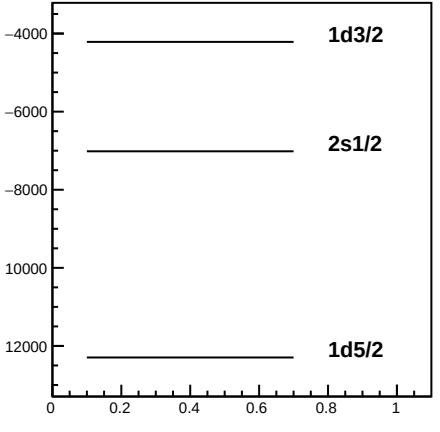
-12675 1d5/2 0.857333 0.718667











Experiment: Ar86 (12) Kozub1972 (4)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6041.02 ± 483.741 keV

Δ: -3943.82 ± 1402.68 keV

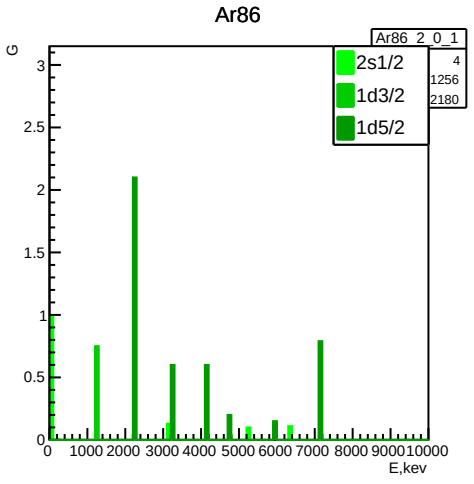
penalty: 0.387416

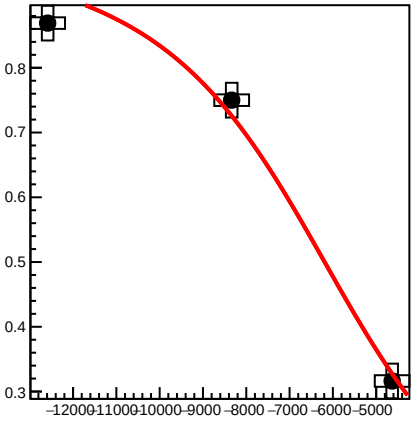
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

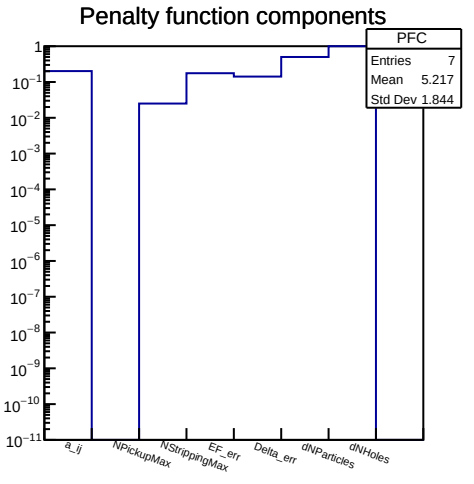
-7015.55 2s1/2 0.65 1.04

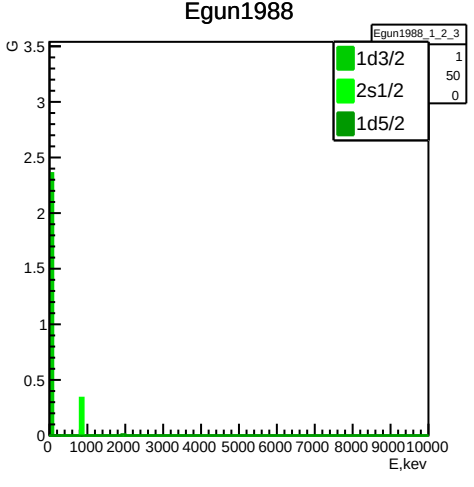
-4213.81 1d3/2 0.26575 0.9135

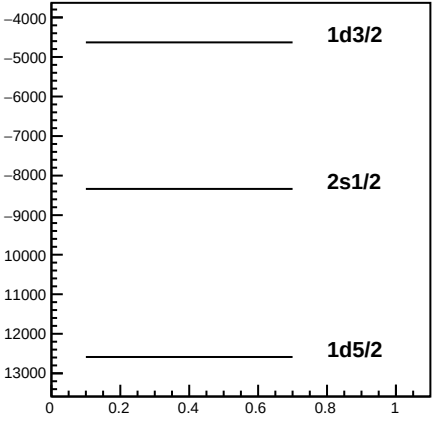
-12295.5 1d5/2 0.86 0.76











Experiment: Ar86 (12) Egun1988 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6190.49 ± 414.654 keV

Δ: 4239.56 ± 930.062 keV

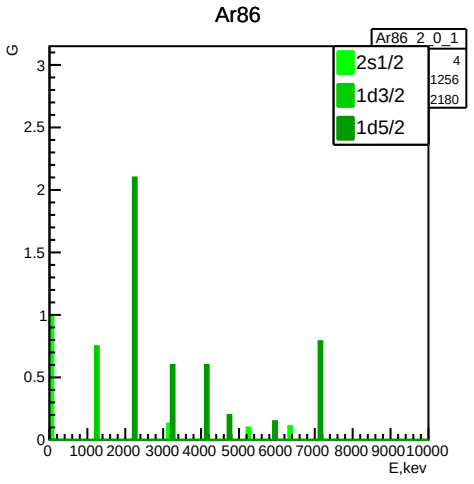
penalty: 0.393184

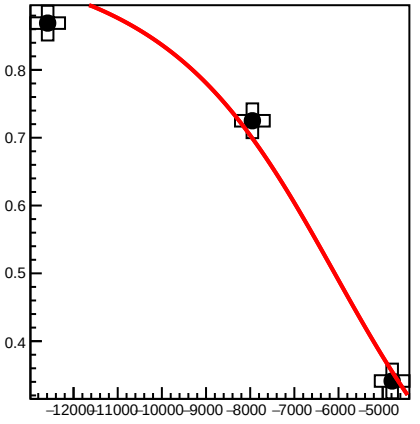
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

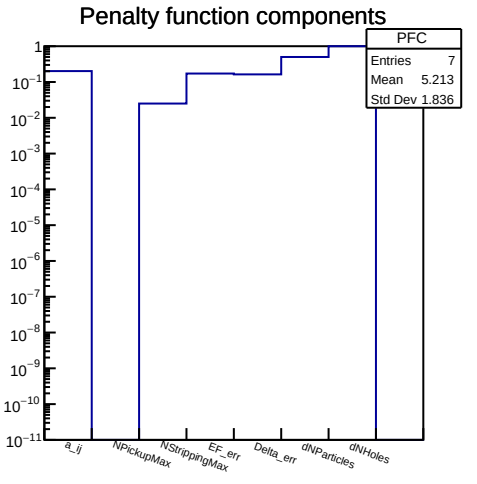
-8336.65 2s1/2 0.75 0.84

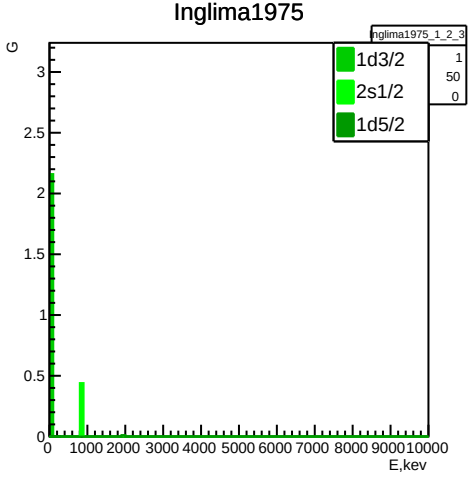
-4631.09 1d3/2 0.31625 0.8125

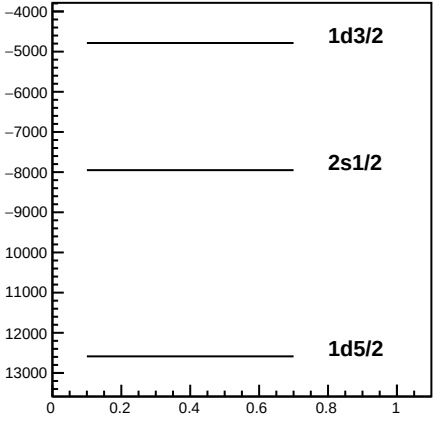
-12586.7 1d5/2 0.869 0.742











Experiment: Ar86 (12) Inglima1975 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6086.9 ± 406.07 keV

Δ: -4292.71 ± 1071.57 keV

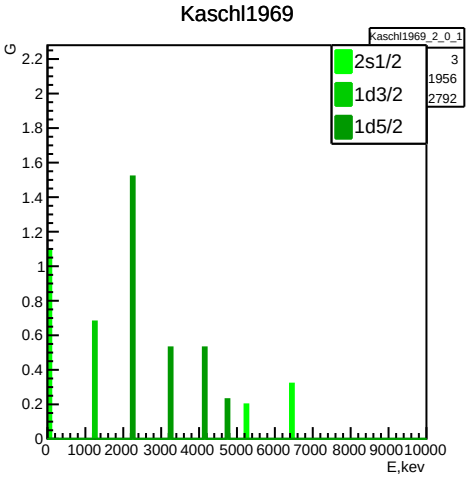
penalty: 0.39663

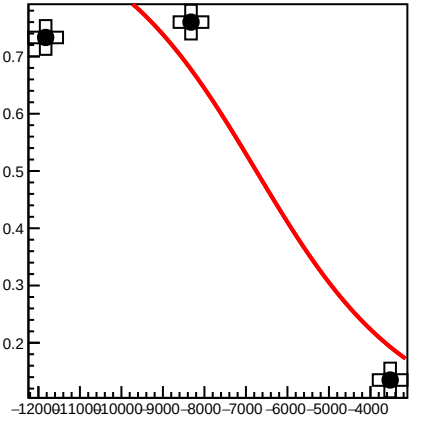
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

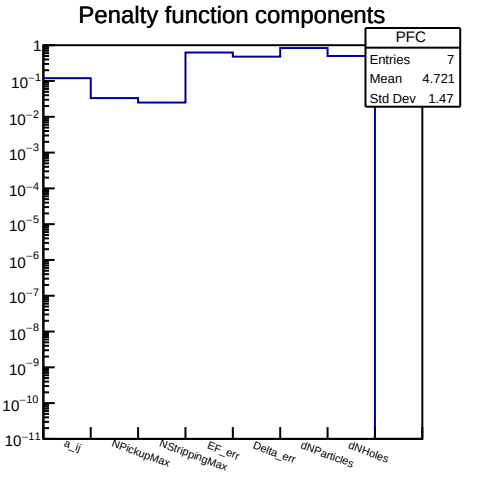
-7950.71 2s1/2 0.725 0.89

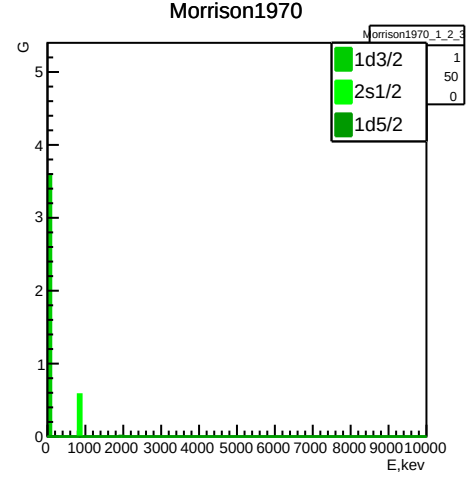
-4785.42 1d3/2 0.34125 0.7625

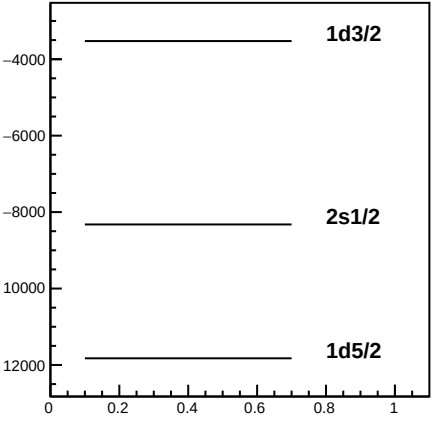
-12586.7 1d5/2 0.869 0.742











Experiment: Kaschl1969 (8) Morrison1970 (3

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6750.99 ± 1472.04 keV

Δ: 4144.49 ± 3142.74 keV

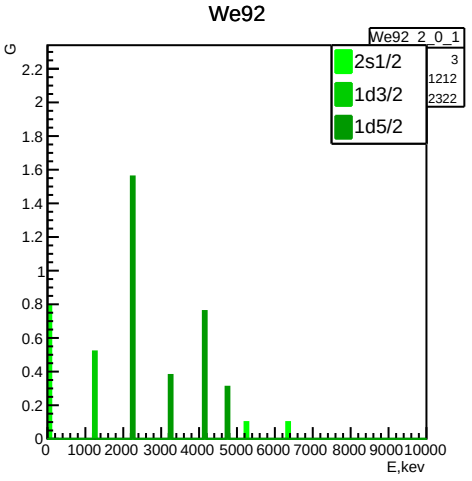
penalty: 0.502934

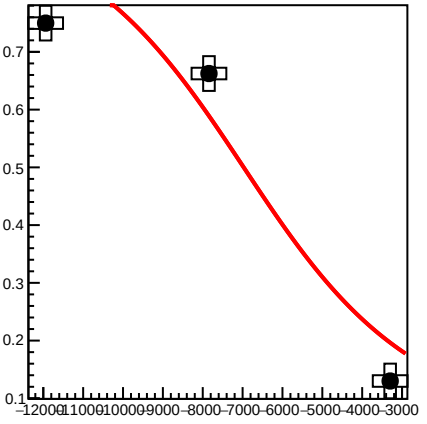
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

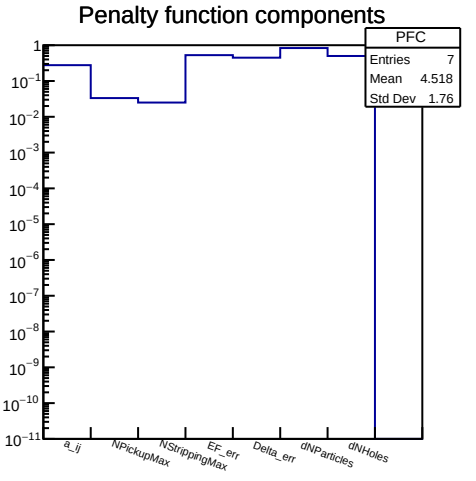
-8323.51 2s1/2 0.76 1.1

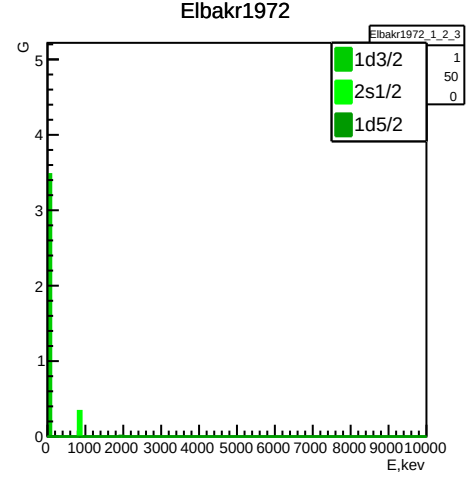
-3524.98 1d3/2 0.135 1.07

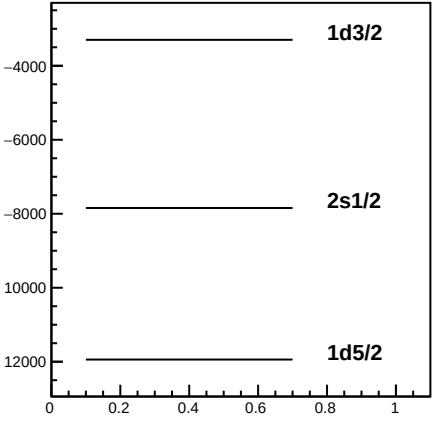
-11825.6 1d5/2 0.733167 0.470333











Experiment: We92 (8) Elbakr1972 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6972.46 ± 1243.71 keV

Δ: 4809.18 ± 2941.99 keV

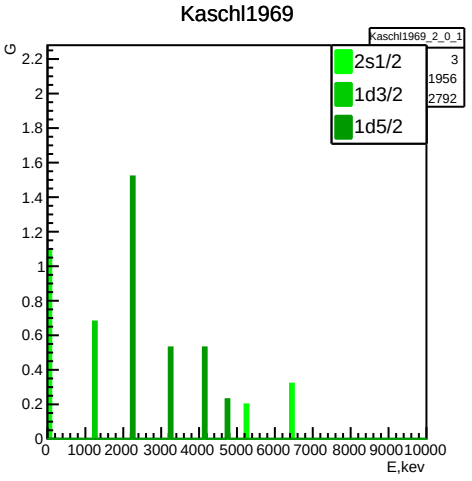
penalty: 0.508649

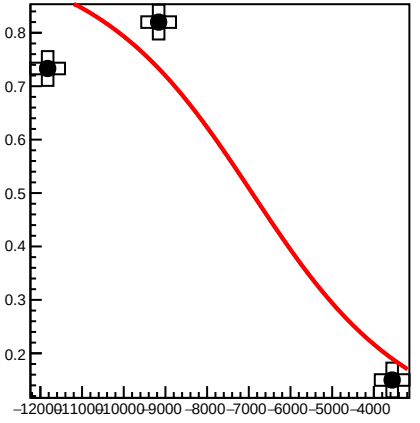
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

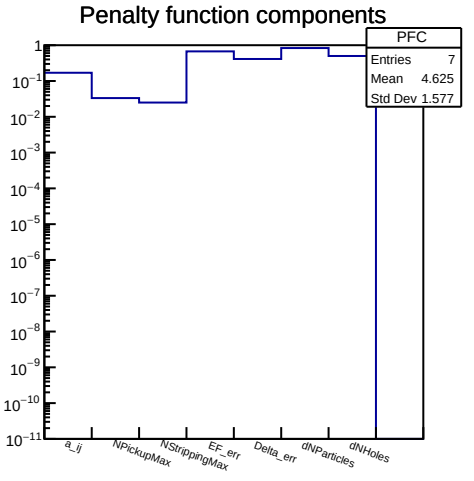
-7844.09 2s1/2 0.6625 0.665

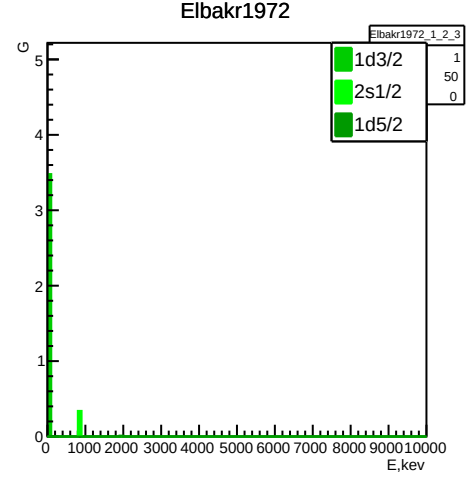
-3298.24 1d3/2 0.13 1

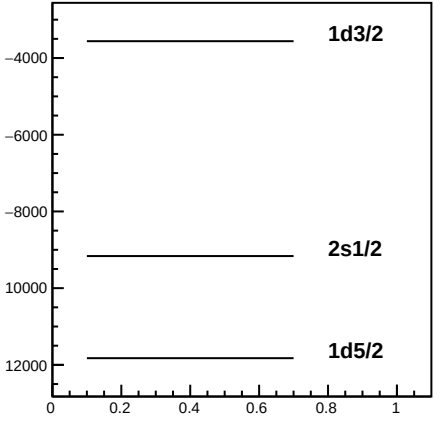
-11941.1 1d5/2 0.749833 0.503667











Experiment: Kaschl1969 (8) Elbakr1972 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6920.9 ± 1584.13 keV

Δ: 4250.82 ± 2706.61 keV

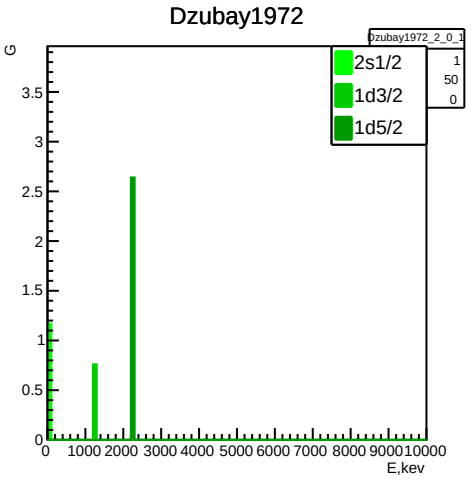
penalty: 0.508919

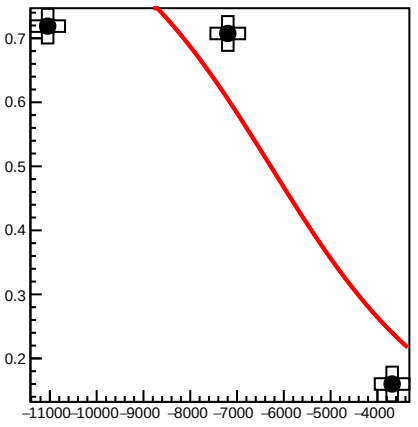
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

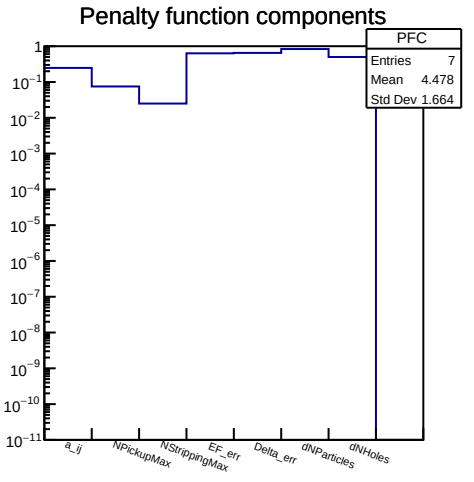
-9163.09 2s1/2 0.82 0.98

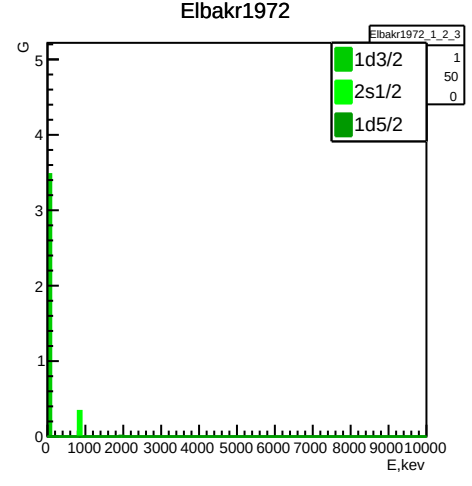
-3560.97 1d3/2 0.15 1.04

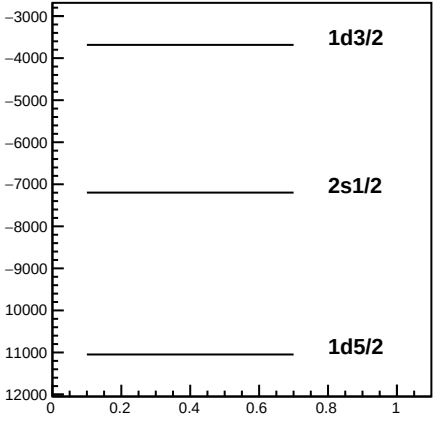
-11825.6 1d5/2 0.733167 0.470333











Experiment: Dzubay1972 (3) Elbakr1972 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6280.19 ± 1491.15 keV

Δ: -4265.17 ± 4266.26 keV

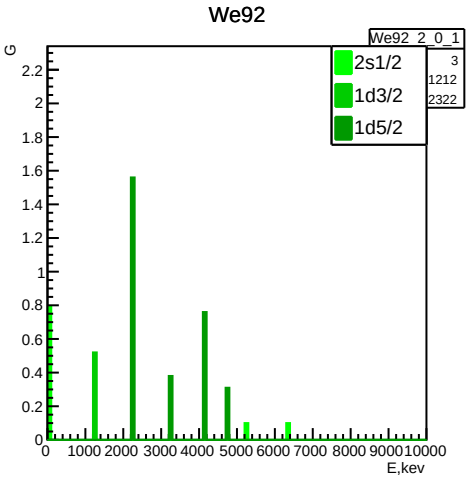
penalty: 0.570001

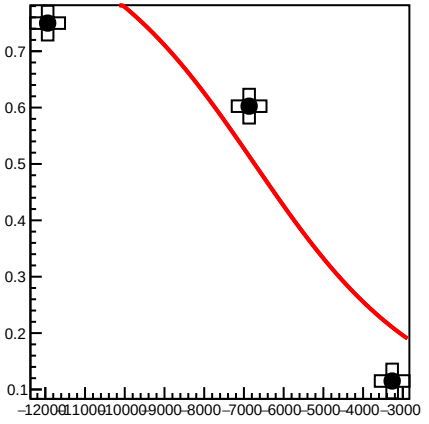
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

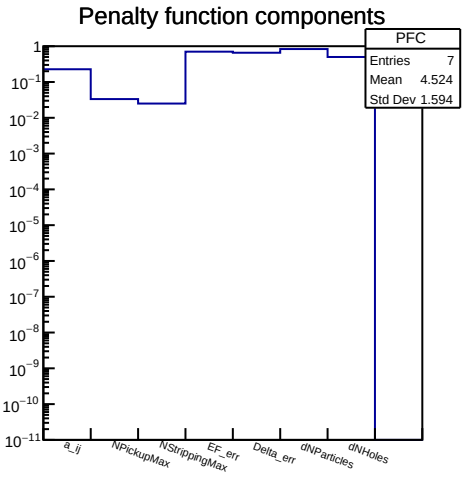
-7197.79 2s1/2 0.7075 0.755

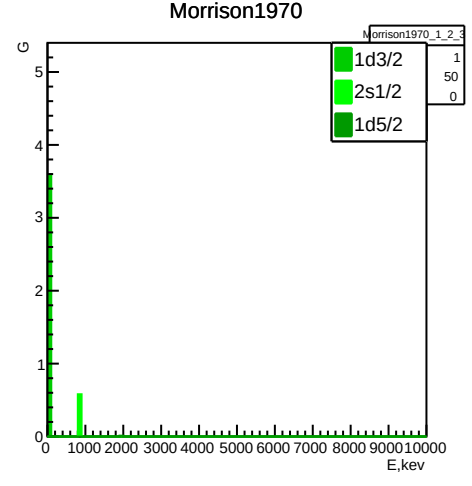
-3684.9 1d3/2 0.16 1.06

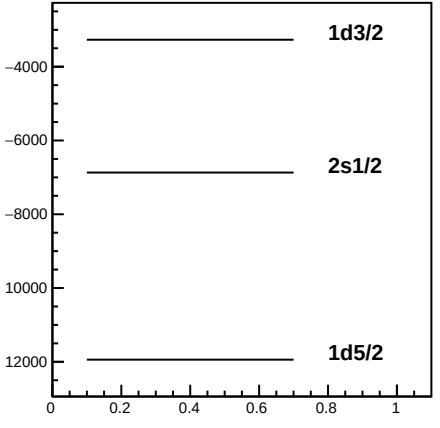
-11047.9 1d5/2 0.719 0.442











Experiment: We92 (8) Morrison1970 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6731.85 ± 1658.58 keV

Δ: -4875.87 ± 4312.24 keV

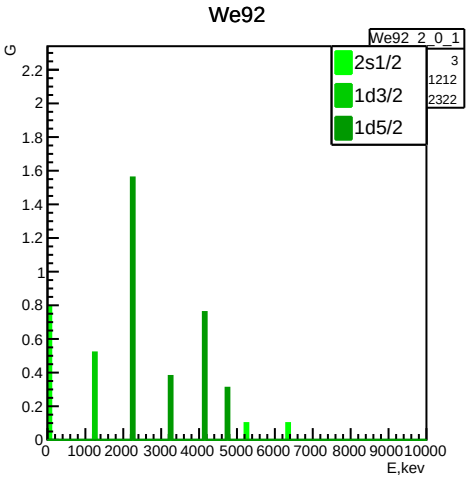
penalty: 0.57305

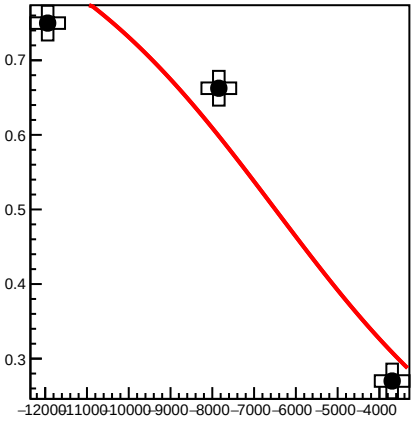
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

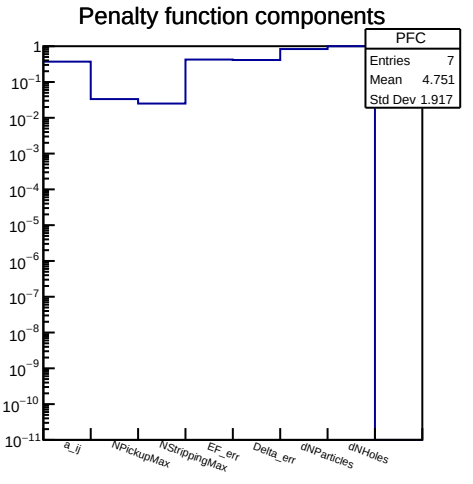
-6869.24 2s1/2 0.6025 0.785

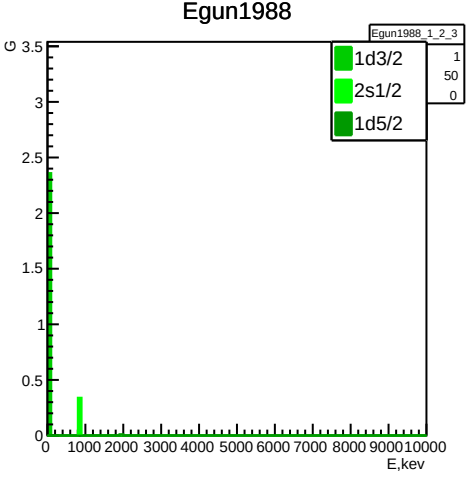
-3268.51 1d3/2 0.115 1.03

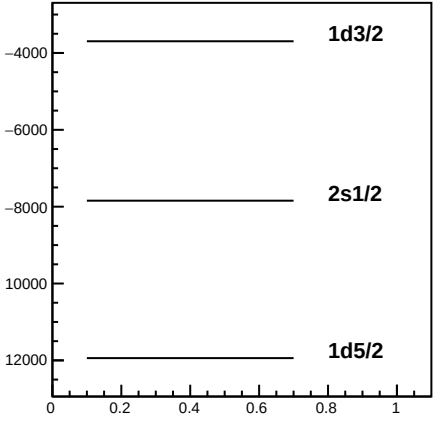
-11941.1 1d5/2 0.749833 0.503667











Experiment: We92 (8) Egun1988 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6491.78 ± 998.77 keV

Δ: 6734.37 ± 2700.77 keV

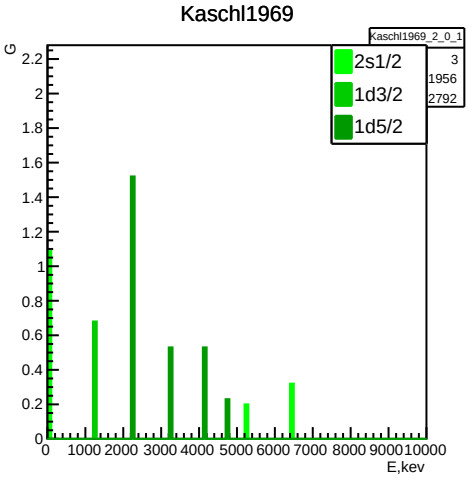
penalty: 0.595688

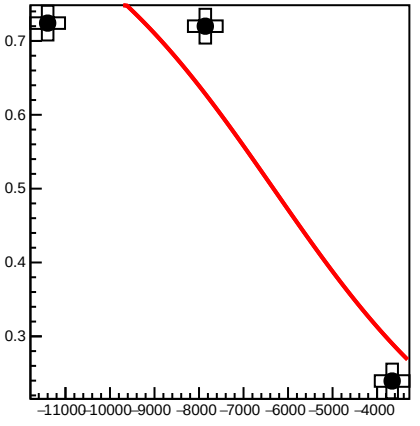
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

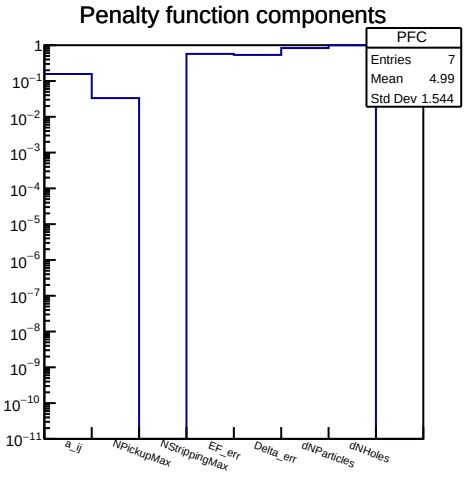
-7844.09 2s1/2 0.6625 0.665

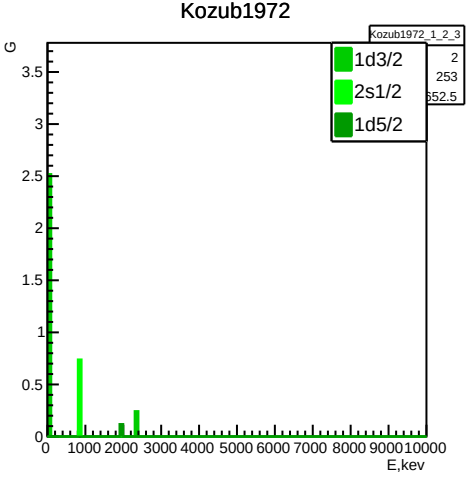
-3695.19 1d3/2 0.27 0.72

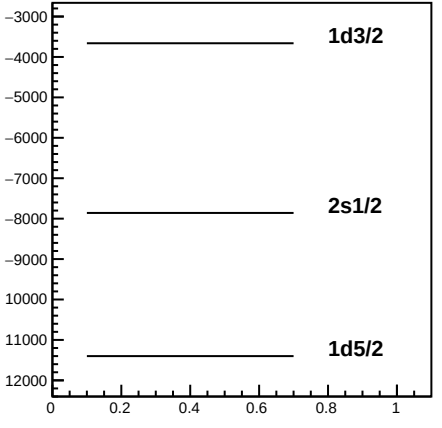
-11941.1 1d5/2 0.749833 0.503667











Experiment: Kaschl1969 (8) Kozub1972 (4)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6327.47 ± 1347.08 keV

Δ: -5766.93 ± 3514.27 keV

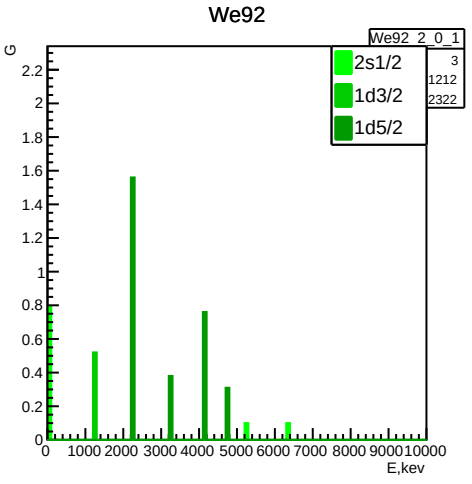
penalty: 0.602082

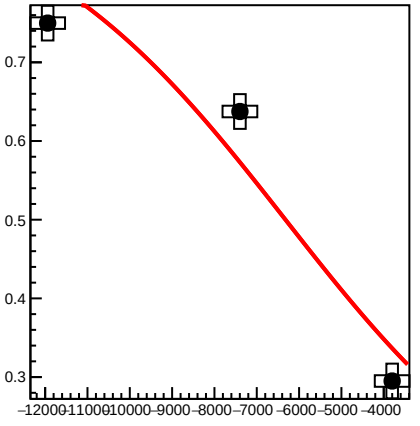
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

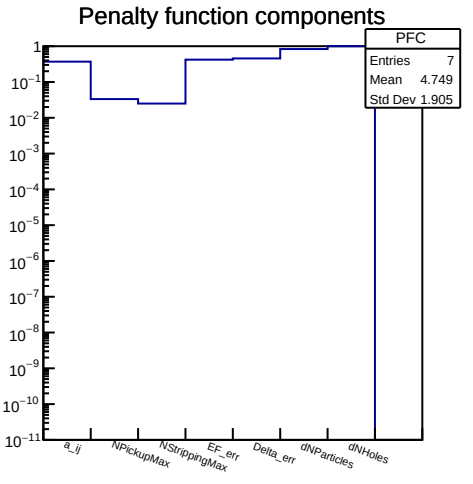
-7858.66 2s1/2 0.72 1.18

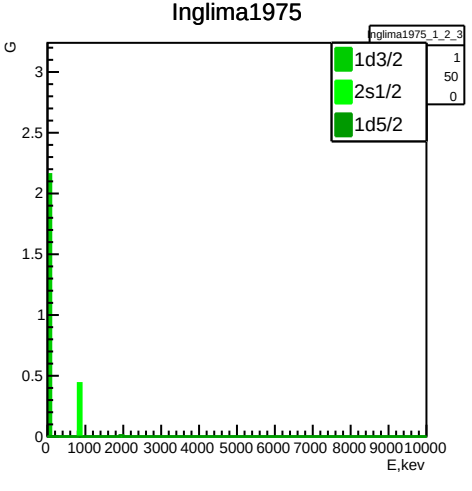
-3661.16 1d3/2 0.2395 0.861

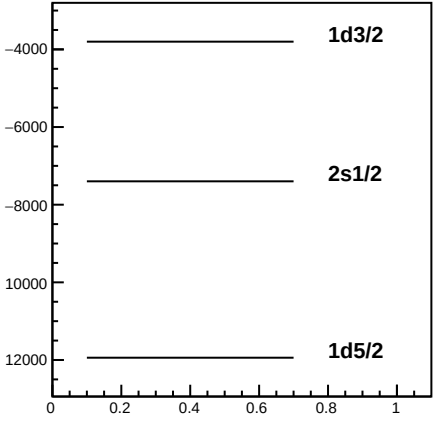
-11400.4 1d5/2 0.724167 0.488333











Experiment: We92 (8) Inglima1975 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6322 ± 991.898 keV

Δ: 7291.26 ± 2989.2 keV

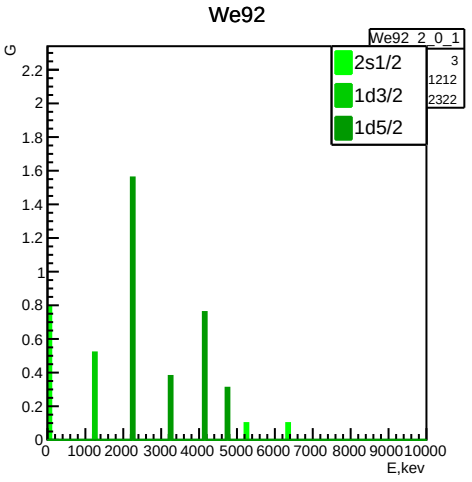
penalty: 0.603579

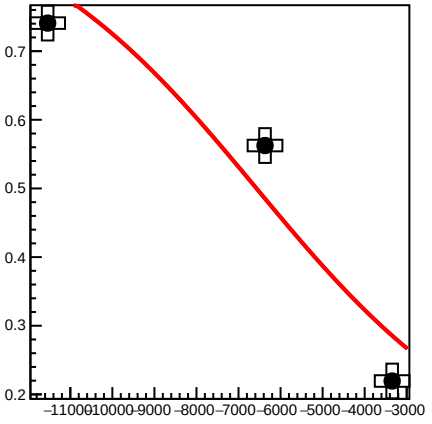
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

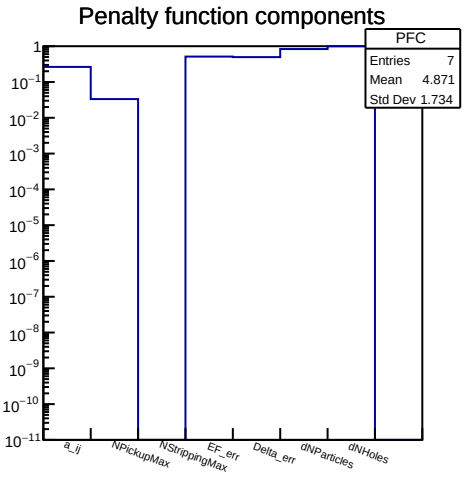
-7398.14 2s1/2 0.6375 0.715

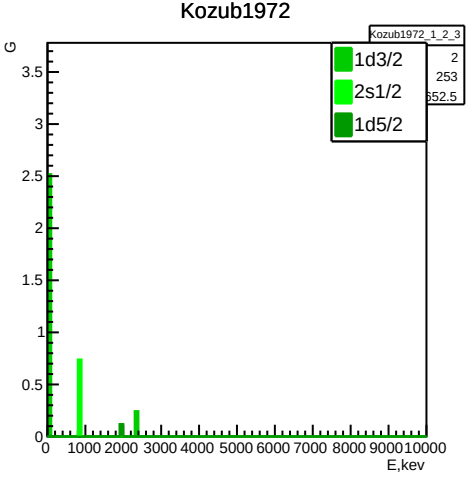
-3800.99 1d3/2 0.295 0.67

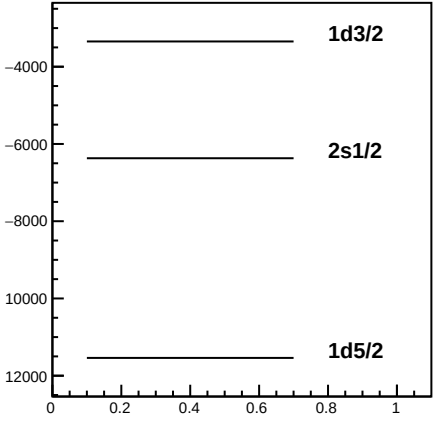
-11941.1 1d5/2 0.749833 0.503667











Experiment: We92 (8) Kozub1972 (4)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6571.81 ± 1208.86 keV

Δ: 6796.55 ± 3254.67 keV

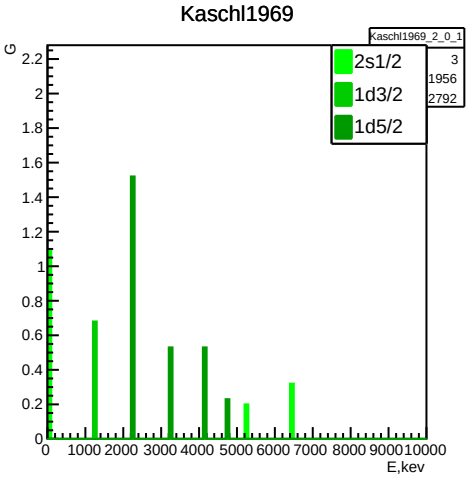
penalty: 0.603811

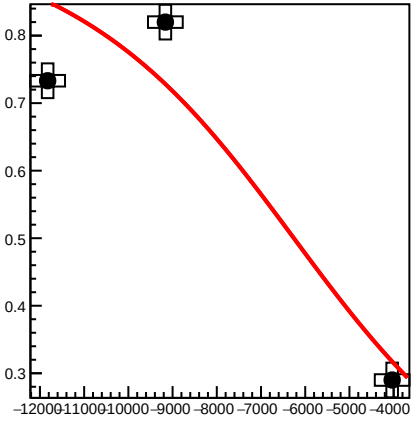
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

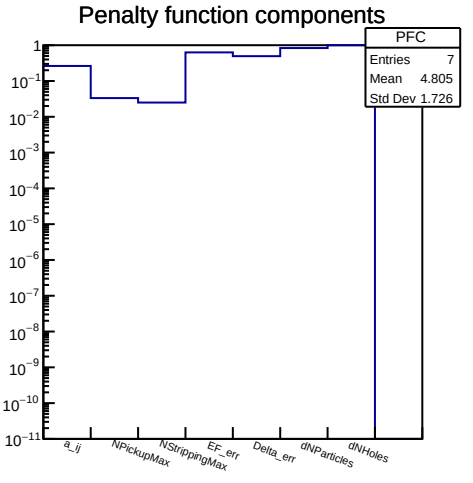
-6369.61 2s1/2 0.5625 0.865

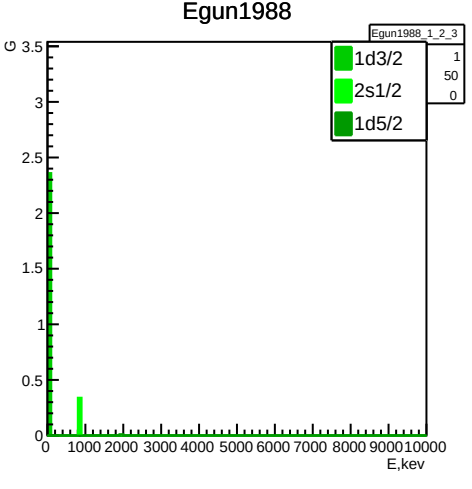
-3346.03 1d3/2 0.2195 0.821

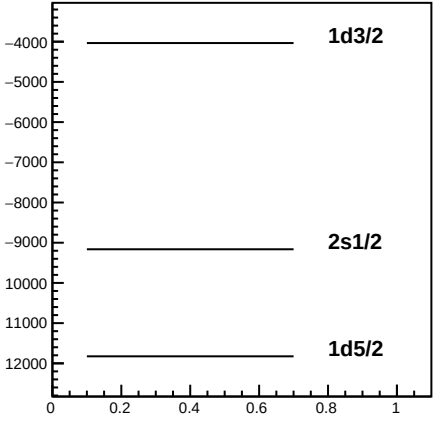
-11539.1 1d5/2 0.740833 0.521667











Experiment: Kaschl1969 (8) Egun1988 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6256.52 ± 1483.67 keV

Δ: 5665.2 ± 3244.81 keV

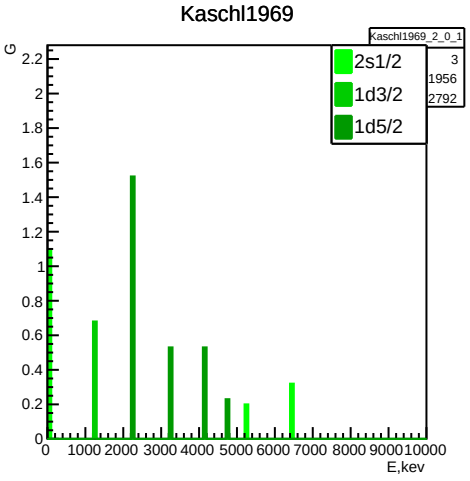
penalty: 0.630592

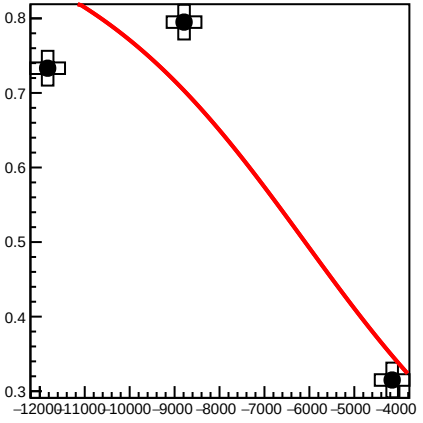
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

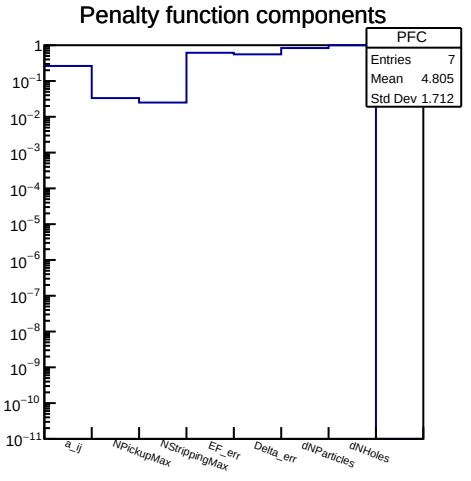
-9163.09 2s1/2 0.82 0.98

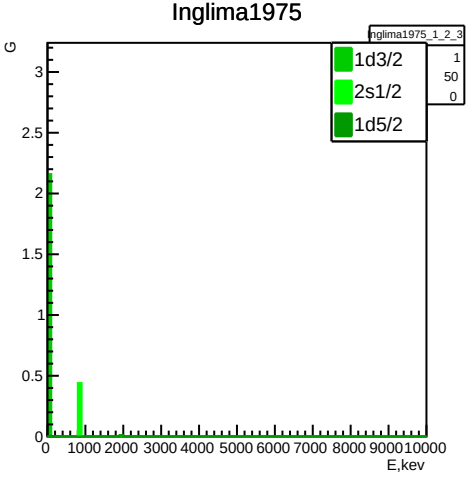
-4033.83 1d3/2 0.29 0.76

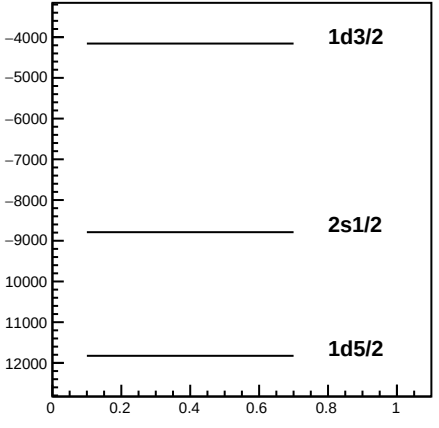
-11825.6 1d5/2 0.733167 0.470333











Experiment: Kaschl1969 (8) Inglima1975 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6095.74 ± 1448.1 keV

Δ: -6056.12 ± 3645.92 keV

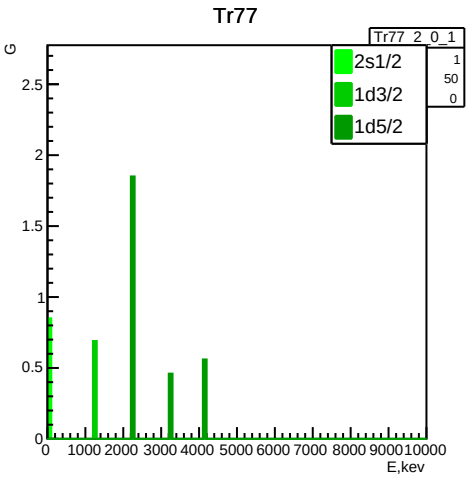
penalty: 0.639442

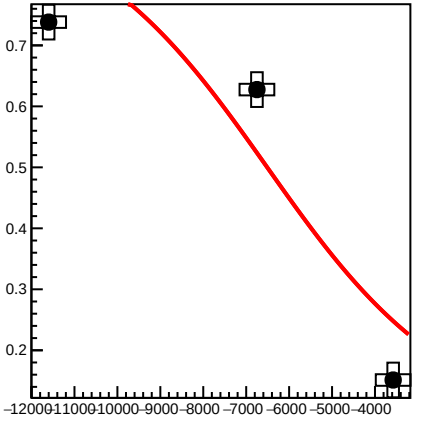
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

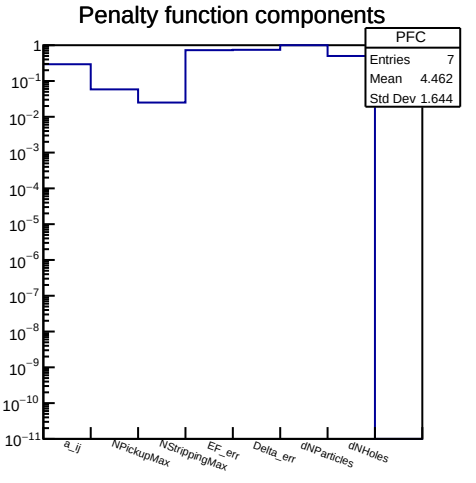
-8789.49 2s1/2 0.795 1.03

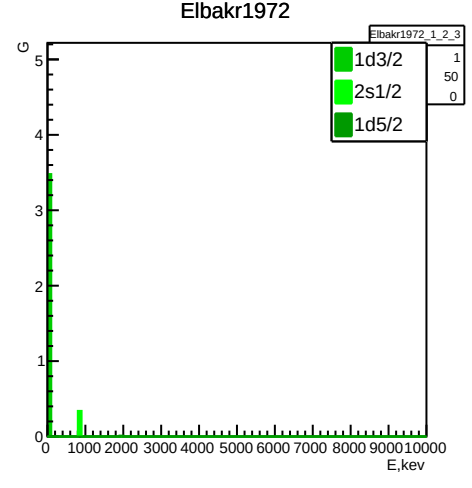
-4157.51 1d3/2 0.315 0.71

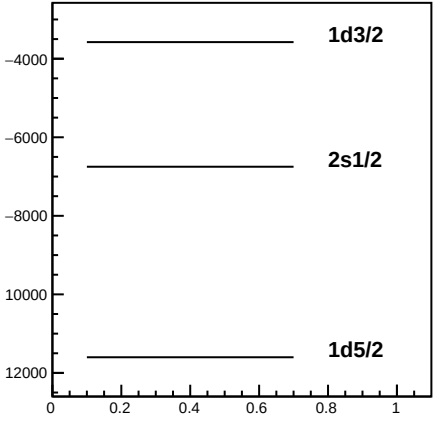
-11825.6 1d5/2 0.733167 0.470333











Experiment: Tr77 (5) Elbakr1972 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6510.62 ± 1713.57 keV

Δ: -5026.46 ± 4879.14 keV

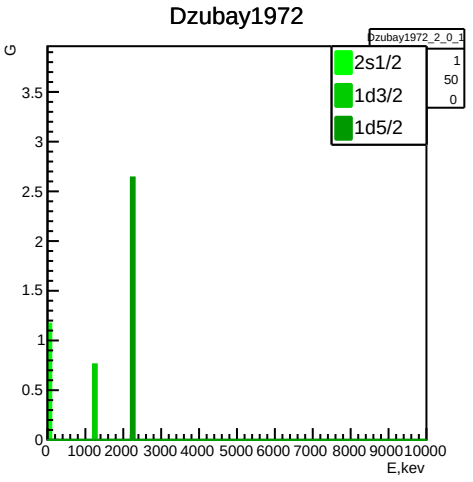
penalty: 0.643883

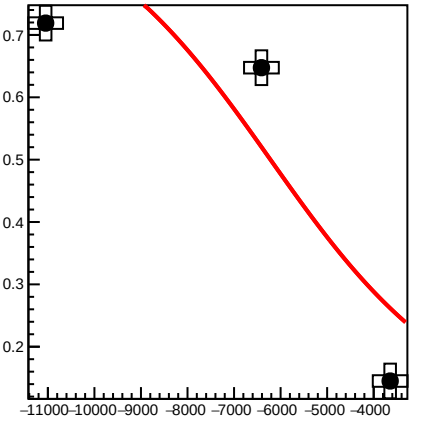
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

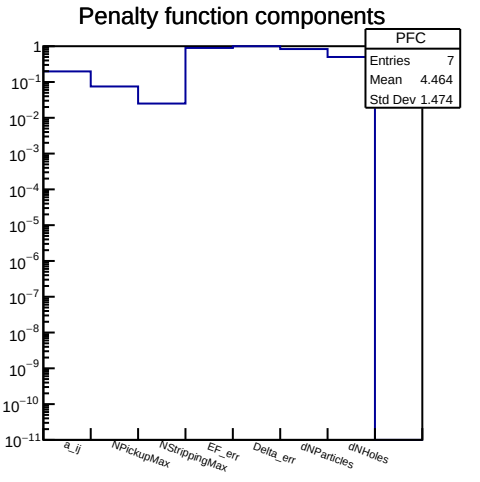
-6749.96 2s1/2 0.6275 0.595

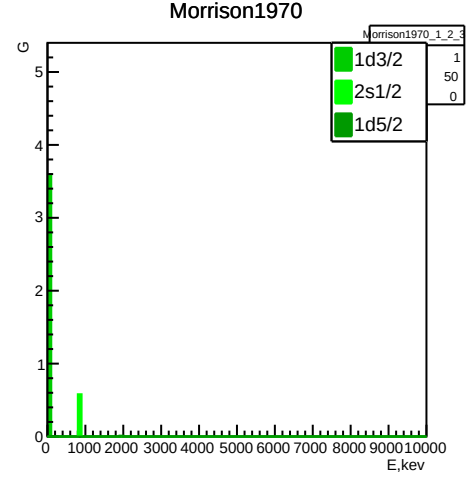
-3576.72 1d3/2 0.15125 1.0425

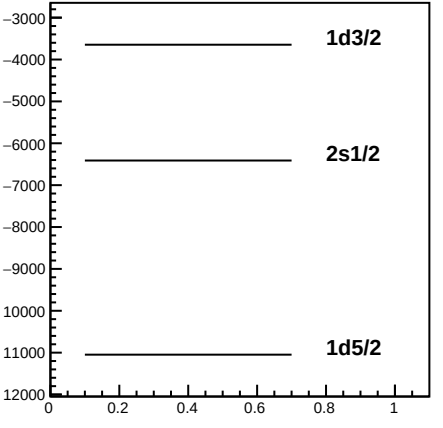
-11601.5 1d5/2 0.738167 0.480333











Experiment: Dzubay1972 (3) Morrison1970 (3

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6217.91 ± 2107.62 keV

Δ: -4746.55 ± 6562.9 keV

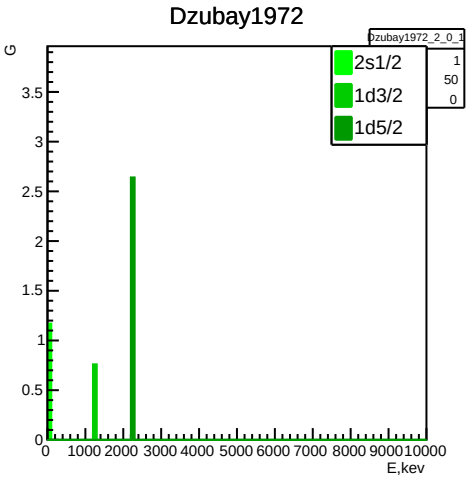
penalty: 0.678004

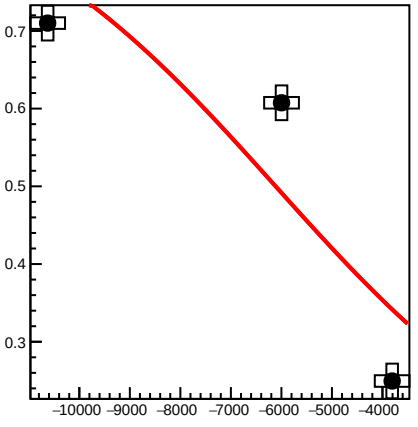
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

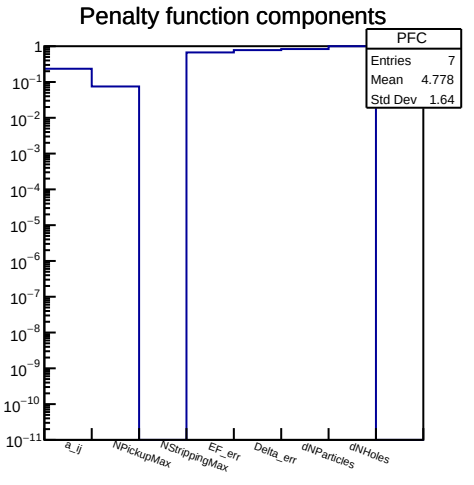
-6411.85 2s1/2 0.6475 0.875

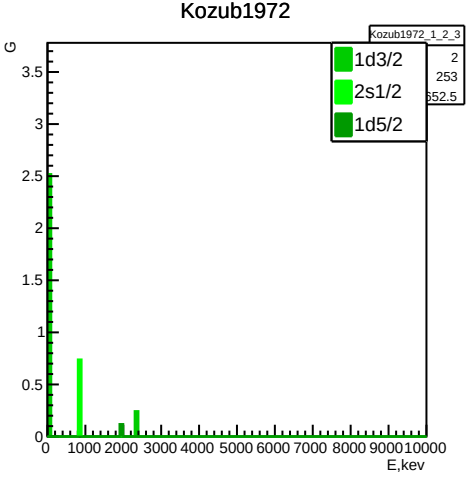
-3646.16 1d3/2 0.145 1.09

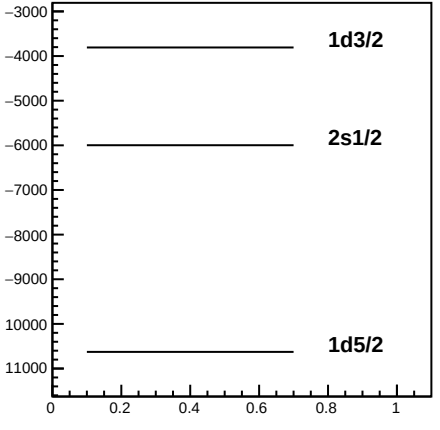
-11047.9 1d5/2 0.719 0.442











Experiment: Dzubay1972 (3) Kozub1972 (4)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6114.3 ± 1578.57 keV

Δ: -6908.25 ± 5106.74 keV

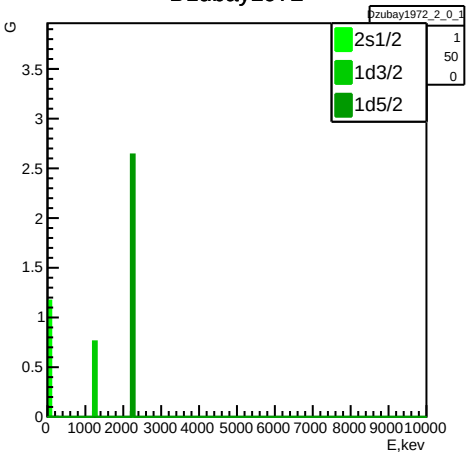
penalty: 0.690611

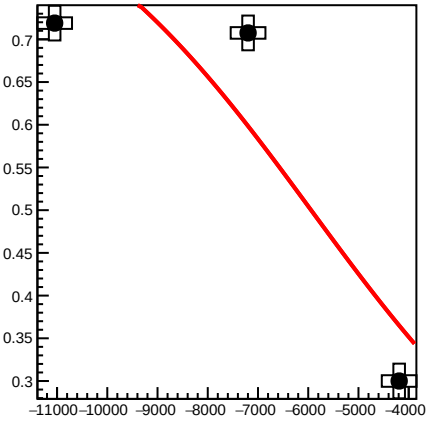
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

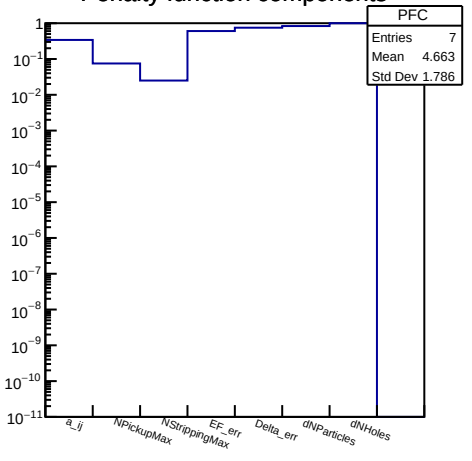
-5997.62 2s1/2 0.6075 0.955

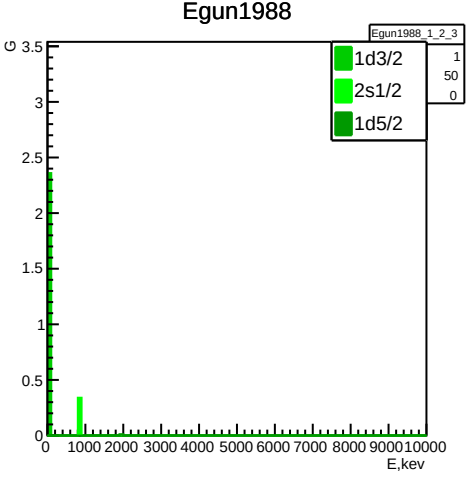
-3808 1d3/2 0.2495 0.881

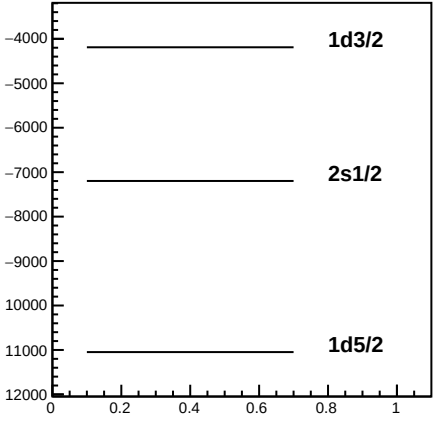
-10627 1d5/2 0.71 0.46











Experiment: Dzubay1972 (3) Egun1988 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -5942.51 ± 1423.08 keV

Δ: 6250.8 ± 4915.99 keV

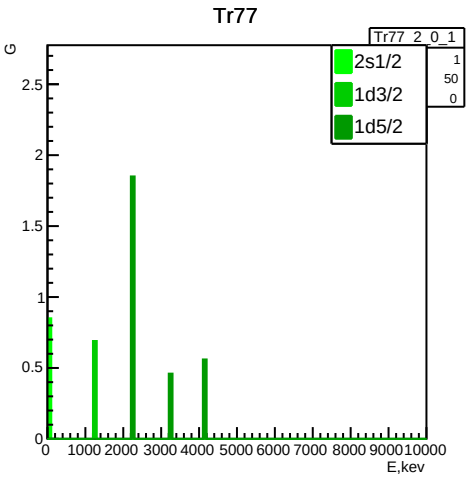
penalty: 0.697586

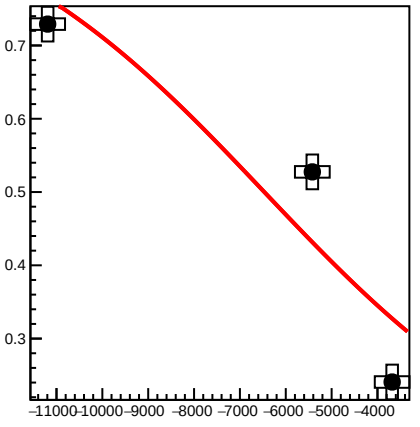
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

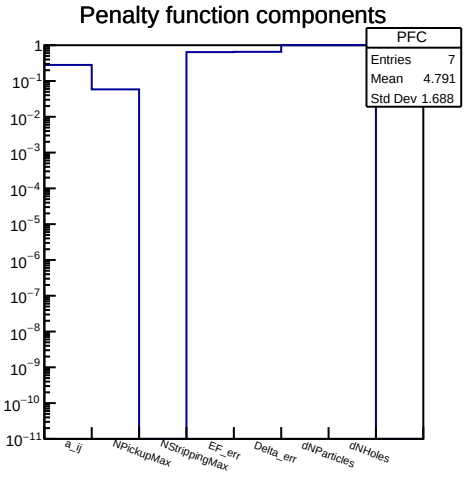
-7197.79 2s1/2 0.7075 0.755

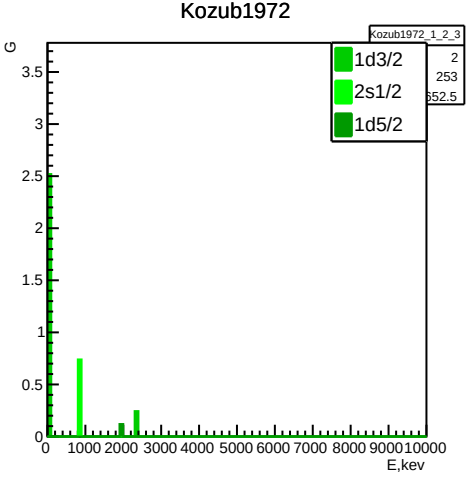
-4190.12 1d3/2 0.3 0.78

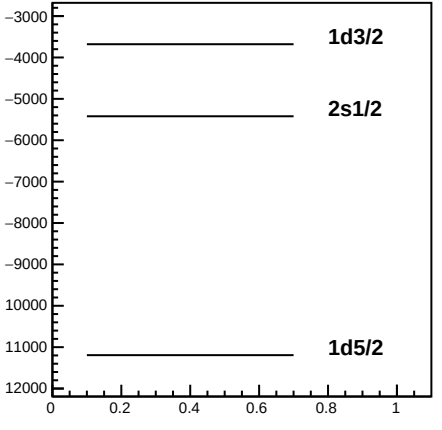
-11047.9 1d5/2 0.719 0.442











Experiment: Tr77 (5) Kozub1972 (4)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6467.7 ± 1512.72 keV

Δ: 7578.98 ± 4282.4 keV

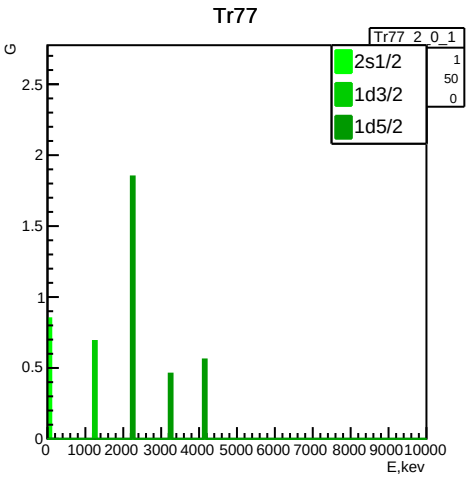
penalty: 0.698848

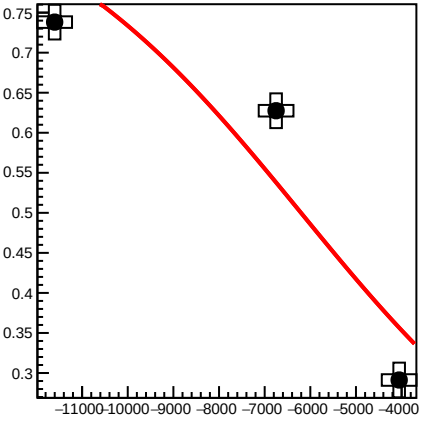
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

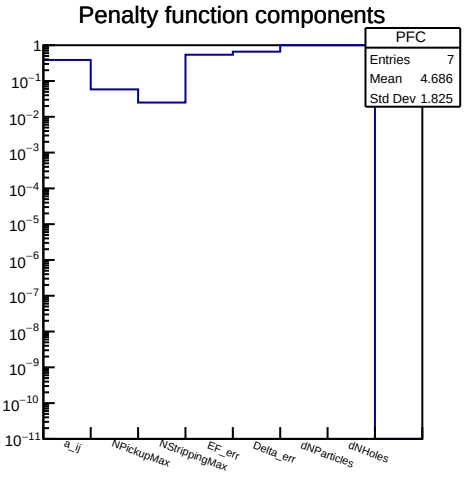
-5420.9 2s1/2 0.5275 0.795

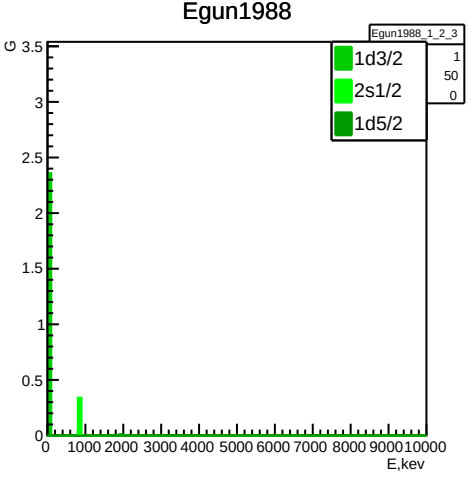
-3679.89 1d3/2 0.24075 0.8635

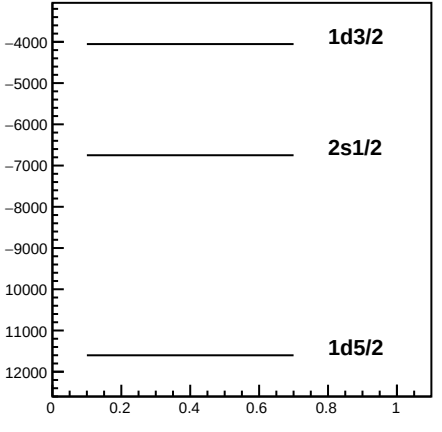
-11193 1d5/2 0.729167 0.498333











Experiment: Tr77 (5) Egun1988 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6203.71 ± 1277.49 keV

Δ: 7181.52 ± 4332.79 keV

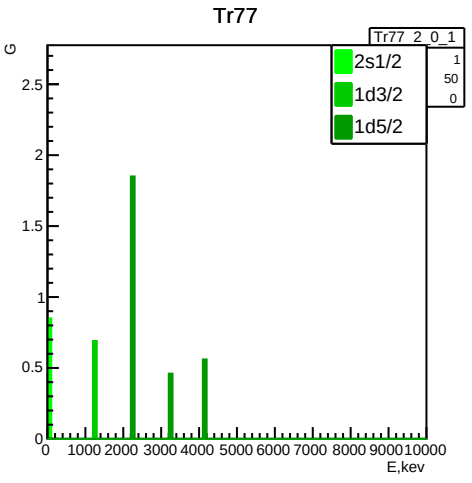
penalty: 0.70638

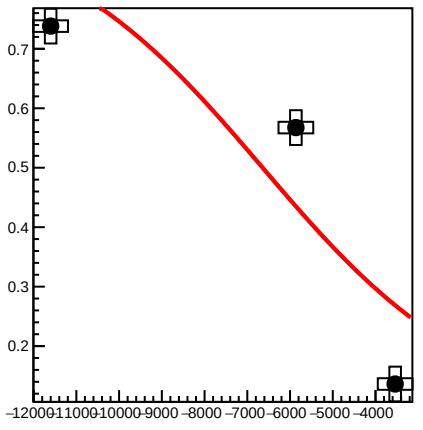
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

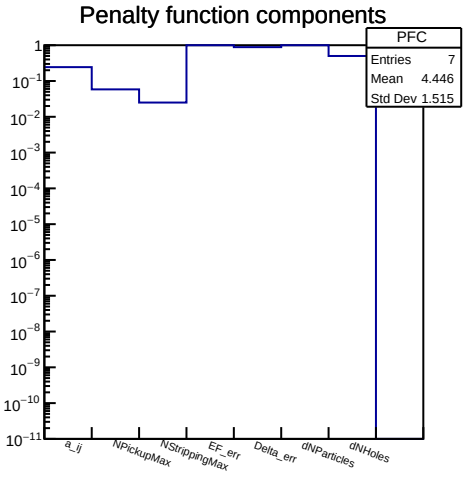
-6749.96 2s1/2 0.6275 0.595

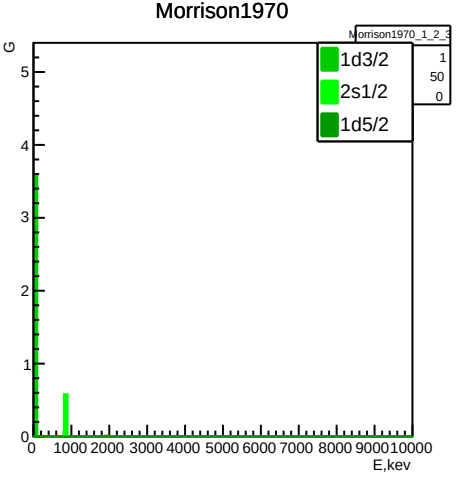
-4053.81 1d3/2 0.29125 0.7625

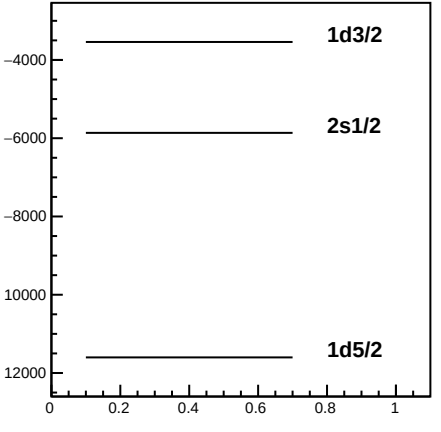
-11601.5 1d5/2 0.738167 0.480333











Experiment: Tr77 (5) Morrison1970 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6641.28 ± 2355.88 keV

Δ: -5942.35 ± 5795.94 keV

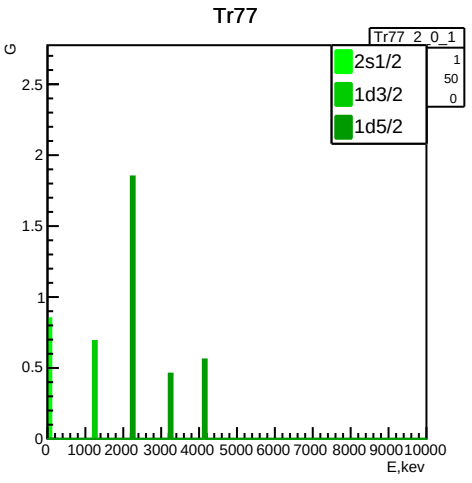
penalty: 0.713563

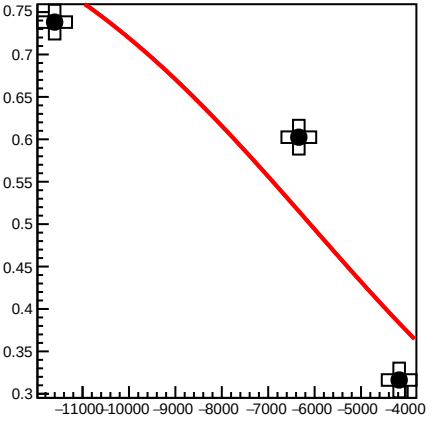
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

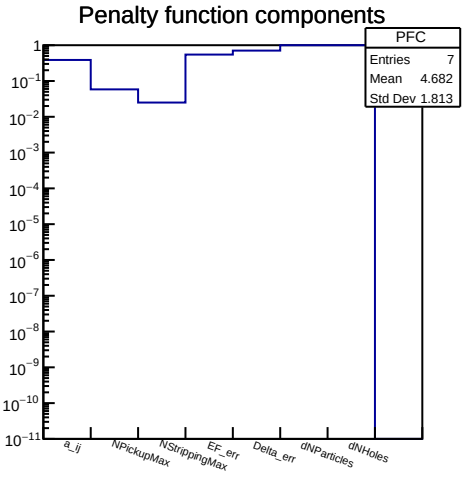
-5863.3 2s1/2 0.5675 0.715

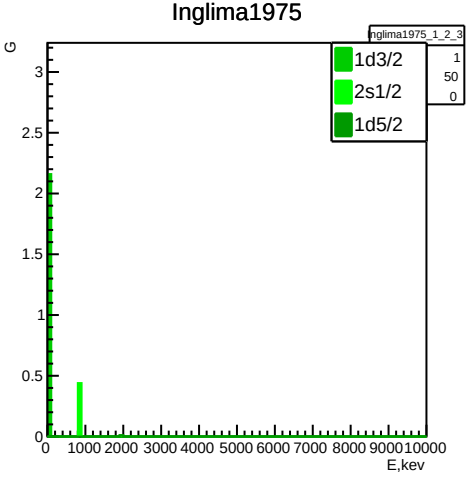
-3540.38 1d3/2 0.13625 1.0725

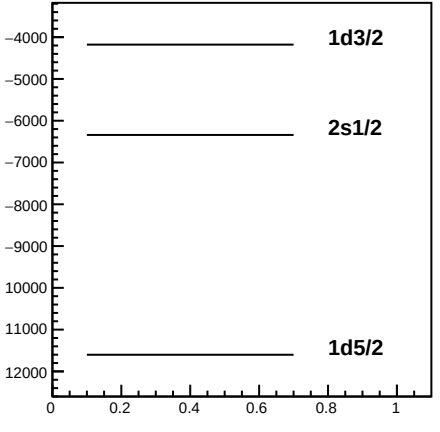
-11601.5 1d5/2 0.738167 0.480333











Experiment: Tr77 (5) Inglima1975 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -6096.03 ± 1289.56 keV

Δ: -7995.18 ± 4639.49 keV

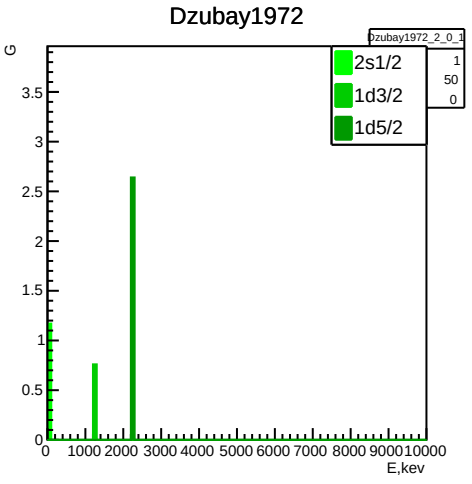
penalty: 0.716352

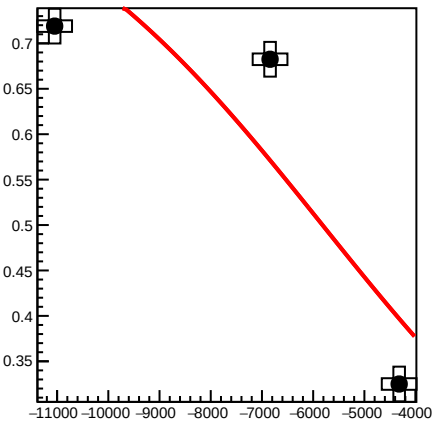
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

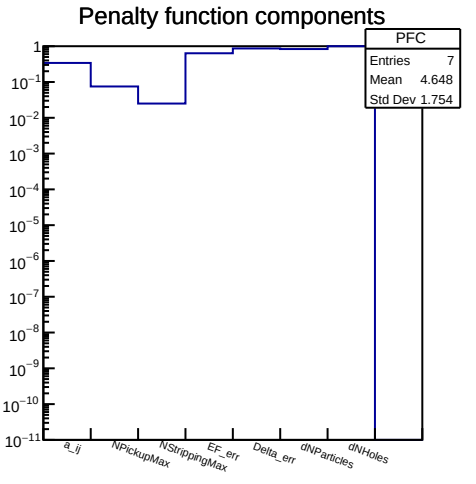
-6340.43 2s1/2 0.6025 0.645

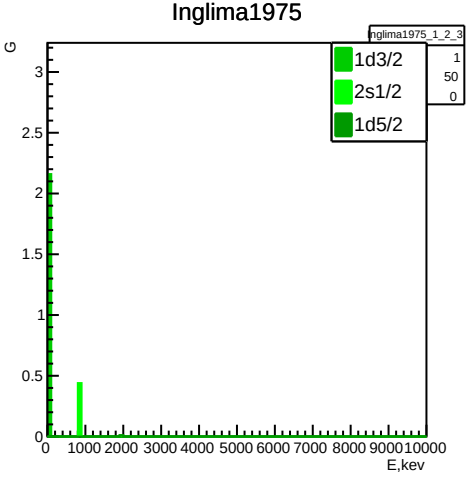
-4178.46 1d3/2 0.31625 0.7125

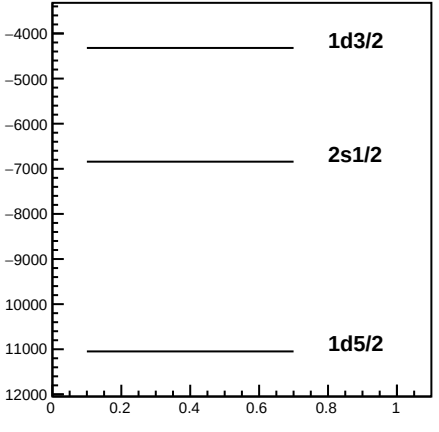
-11601.5 1d5/2 0.738167 0.480333











Experiment: Dzubay1972 (3) Inglima1975 (3)

proton transfer

p separation energy A:8863.17, A+1: 2277.5

E_F: -5818.05 ± 1496.46 keV

Δ: -7106.46 ± 5679.07 keV

penalty: 0.725936

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

-6841.84 2s1/2 0.6825 0.805

-4321.12 1d3/2 0.325 0.73

-11047.9 1d5/2 0.719 0.442