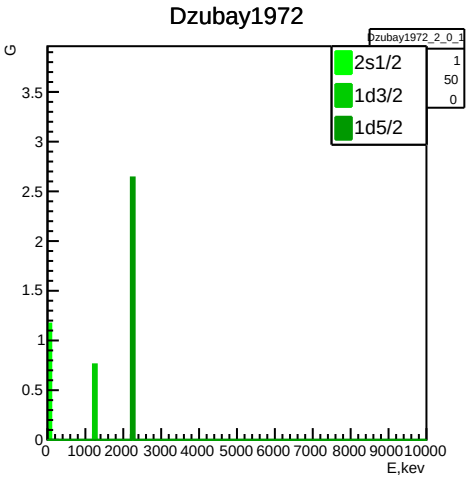
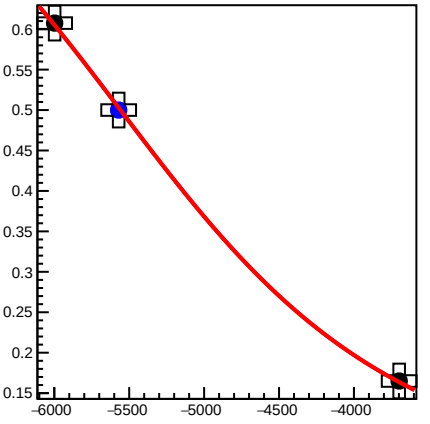
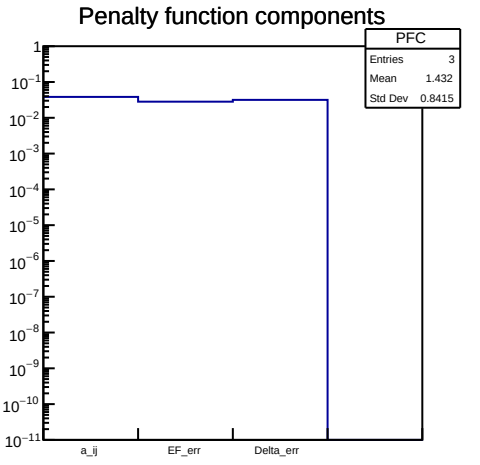
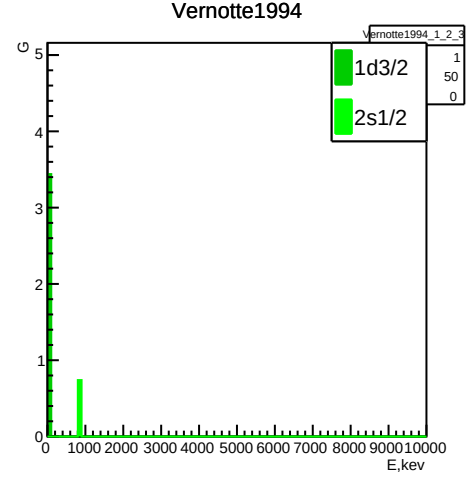
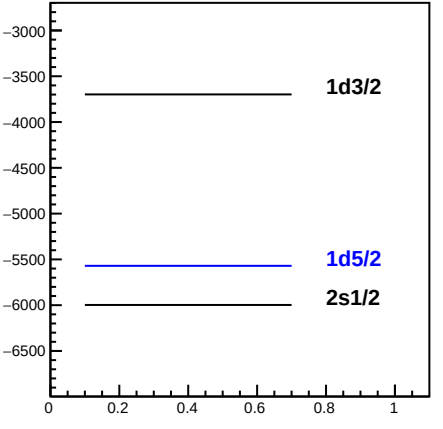










Experiment: Dzubay1972 (3) Vernotte1994 (2

proton transfer

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

E_F: -5558.38 ± 11.8001 keV

Δ: -2046.3 ± 40.3119 keV

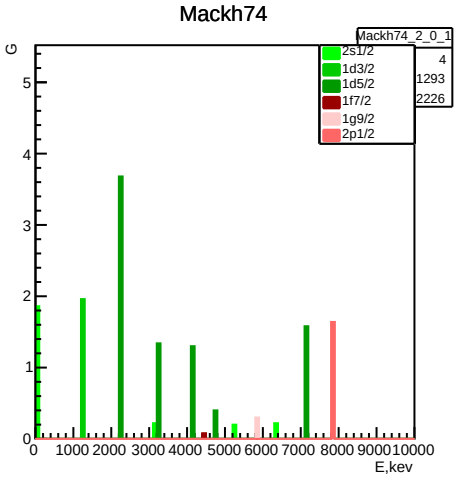
penalty: 0.0327366

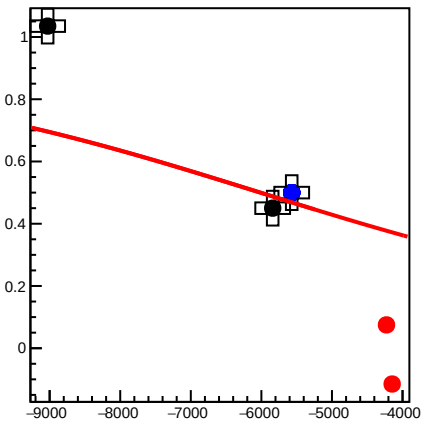
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

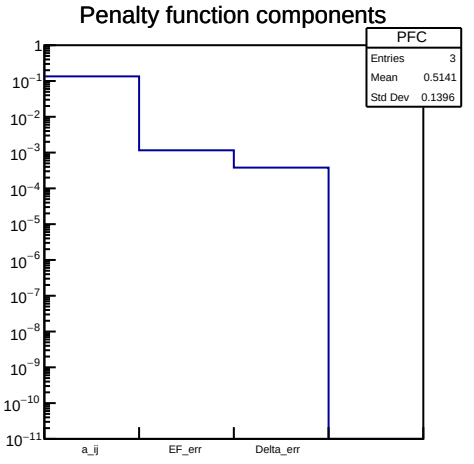
-5997.62 2s1/2 0.6075 0.955

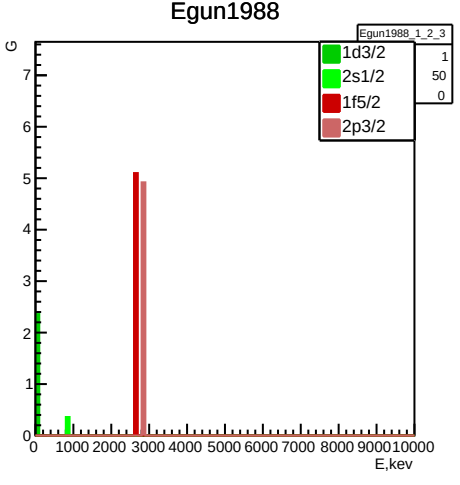
-3698.3 1d3/2 0.165 1.05

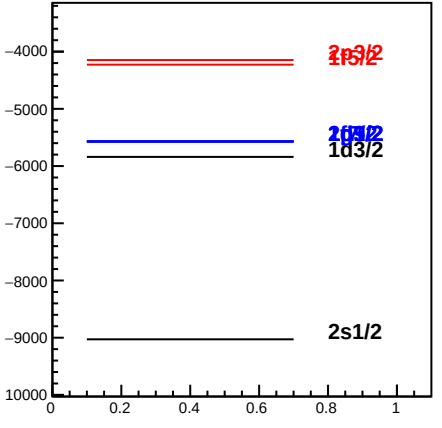
-5570.33 1d5/2 0.5 0.88











Experiment: Mackh74 (13) Egun1988 (4)

proton transfer

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

E_F: -6014.34 ± 0.484296 keV

Δ: 7070.17 ± 0.484296 keV

penalty: 0.0453739

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

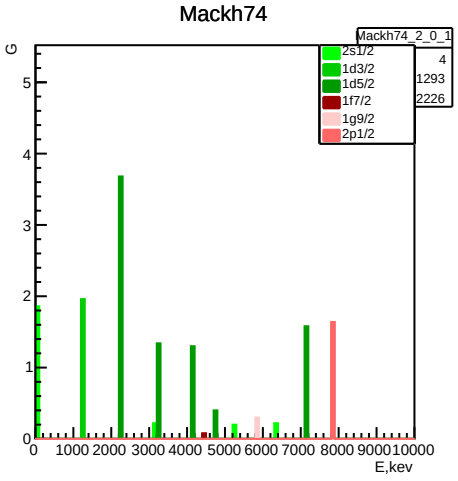
-9028.31 2s1/2 1.035 1.43

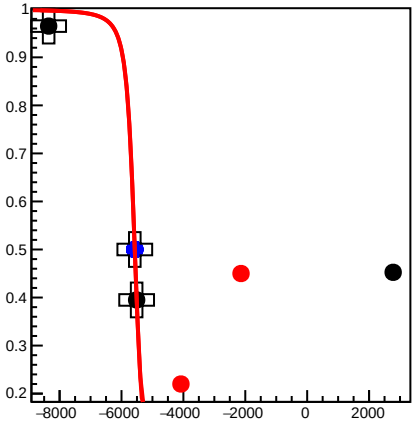
-5839.89 1d3/2 0.45 1.08

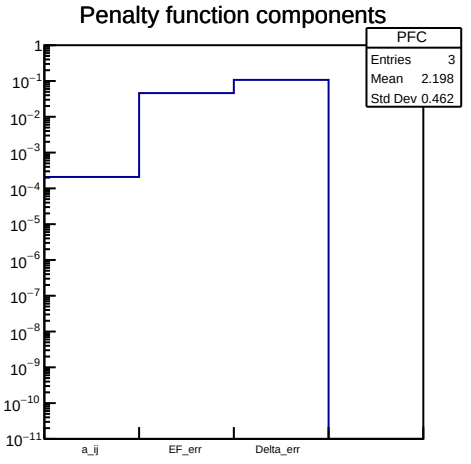
-5570.33 1d5/2 0.5 2.76667

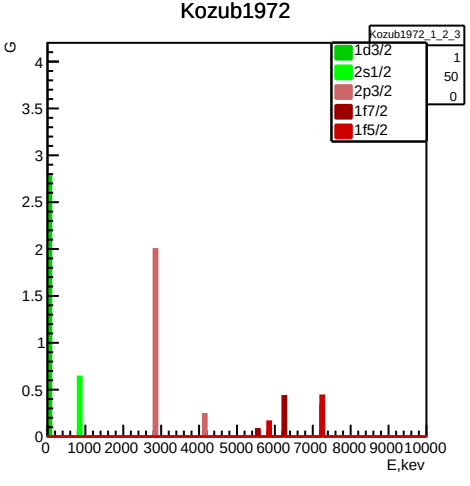
-5570.33 1f7/2 0.5 0.02

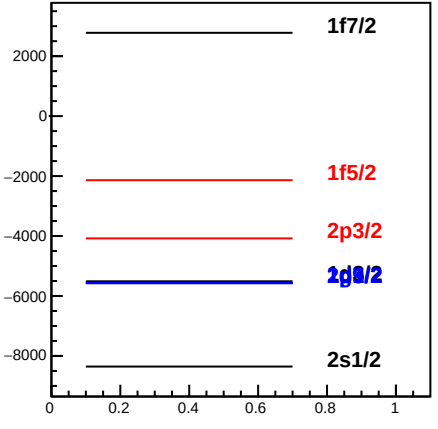
-5570.33 1g9/2 0.5 0.06











Experiment: Mackh74 (13) Kozub1972 (9)

proton transfer

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

E_F: -5571.09 ± 19.2141 keV

Δ: 286.962 ± 136.772 keV

penalty: 0.0511933

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

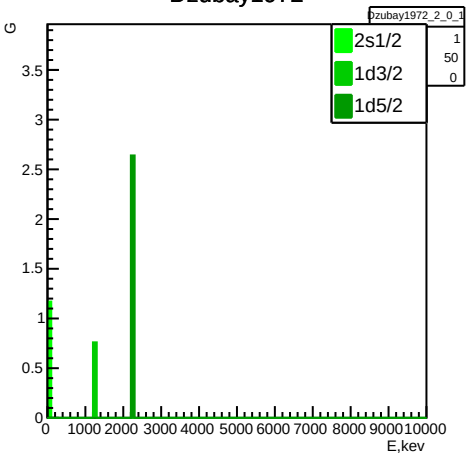
-8354.05 2s1/2 0.965 1.57

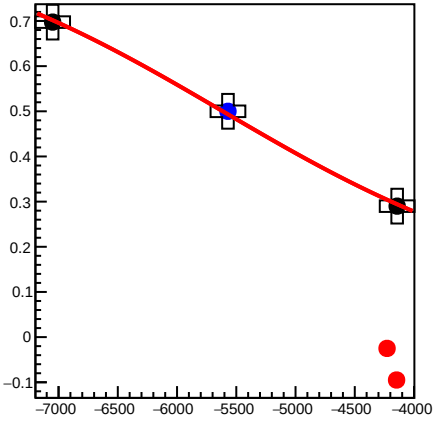
-5510.59 1d3/2 0.395 1.19

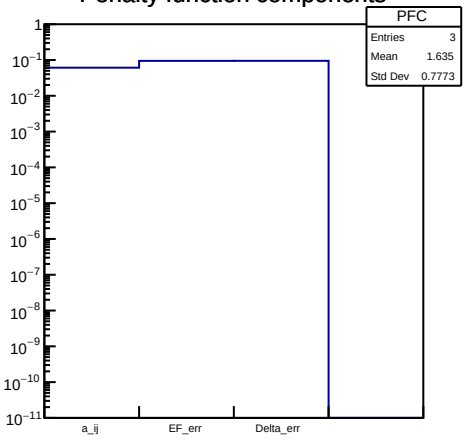
-5570.33 1d5/2 0.5 2.76667

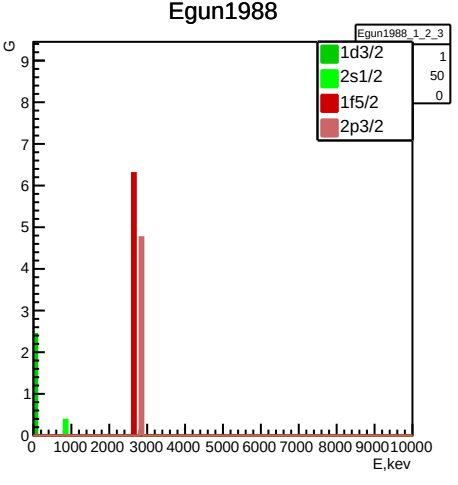
2778.42 1f7/2 0.4525 0.115

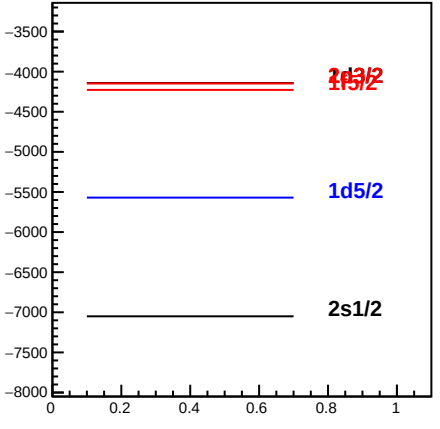
-5570.33 1g9/2 0.5 0.06











Experiment: Dzubay1972 (3) Egun1988 (4)

proton transfer

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

E_F: -5613.74 ± 39.5444 keV

Δ: 3257.68 ± 120.754 keV

penalty: 0.083465

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

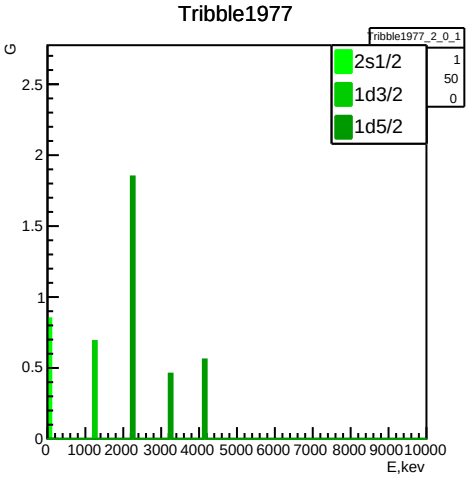
-7049.9 2s1/2 0.6975 0.775

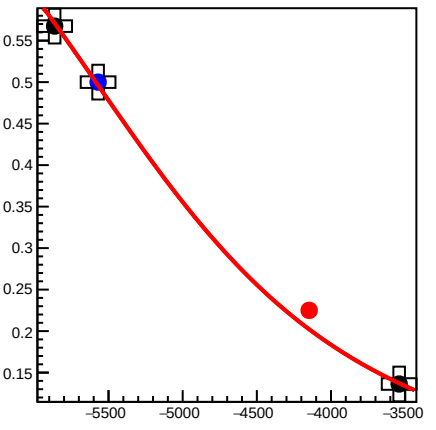
-4142.3 1d3/2 0.29 0.8

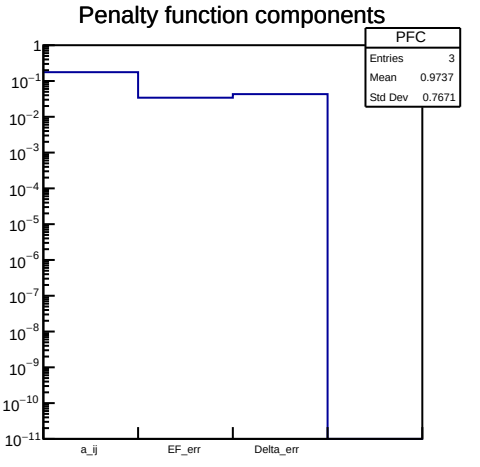
-5570.33 1d5/2 0.5 0.88

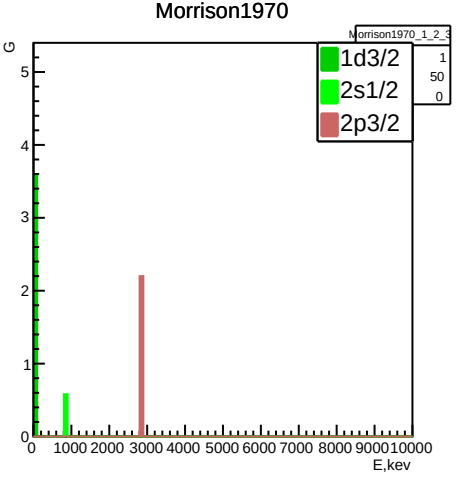
-4227.63 1f5/2 -0.025 1.05

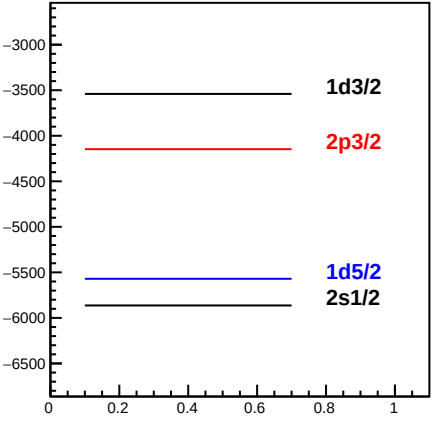
-4147.18 2p3/2 -0.095 1.19











Experiment: Tribble1977 (5) Morrison1970 (3

proton transfer

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

E_F: -5585.05 ± 14.2824 keV

Δ: -1939.01 ± 54.7339 keV

penalty: 0.0845327

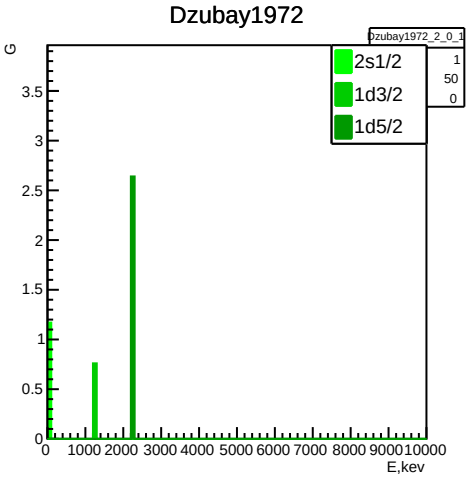
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

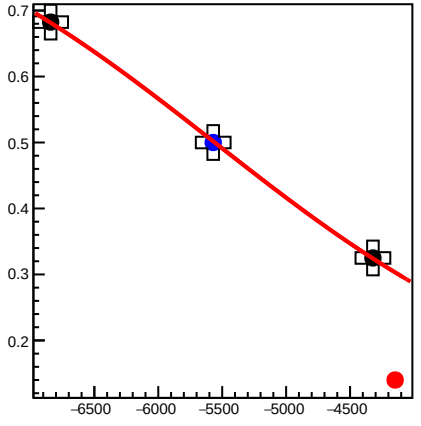
-5863.3 2s1/2 0.5675 0.715

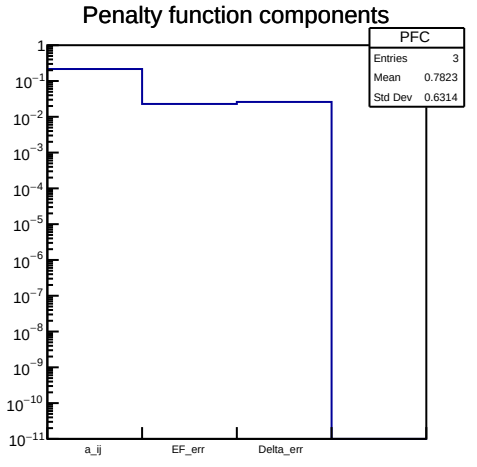
-3540.38 1d3/2 0.13625 1.0725

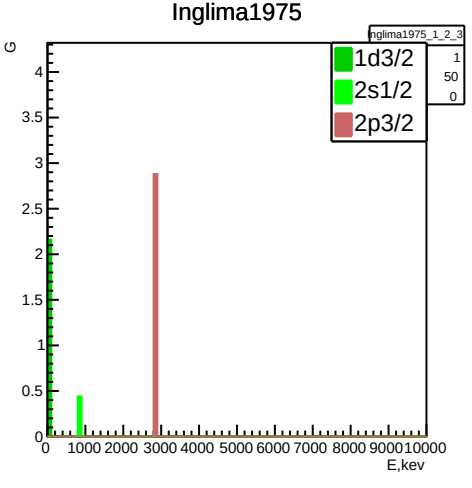
-5570.33 1d5/2 0.5 0.956667

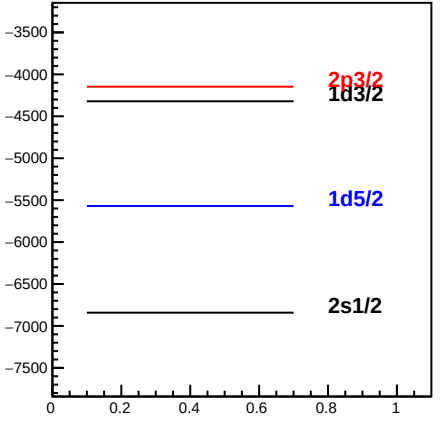
-4147.18 2p3/2 0.225 0.55











Experiment: Dzubay1972 (3) Inglima1975 (3)

proton transfer

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

E_F: -5558.49 ± 9.55558 keV

Δ: 3294.3 ± 33.0894 keV

penalty: 0.0883624

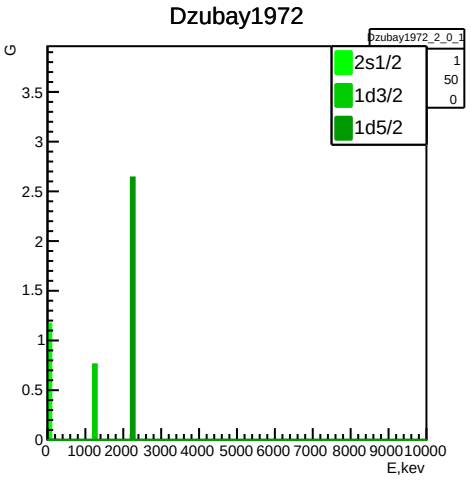
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

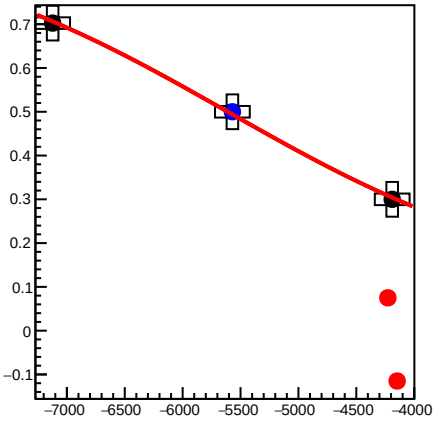
-6841.84 2s1/2 0.6825 0.805

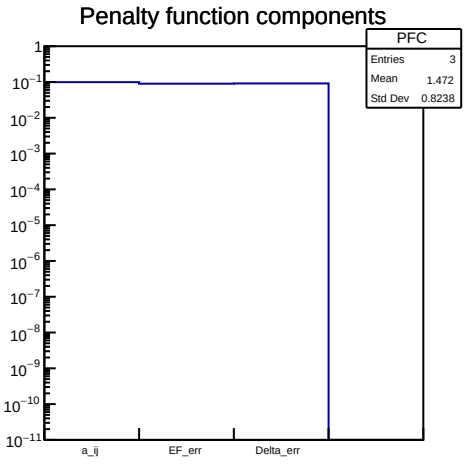
-4321.12 1d3/2 0.325 0.73

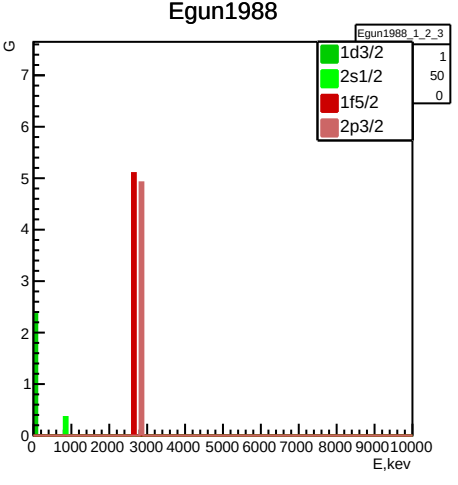
-5570.33 1d5/2 0.5 0.88

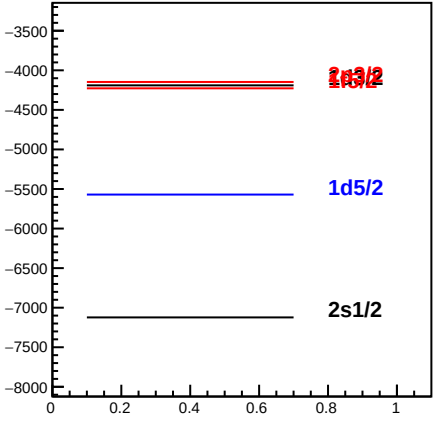
-4147.18 2p3/2 0.14 0.72











Experiment: Dzubay1972 (3) Egun1988 (4)

proton transfer

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

E_F: -5611.15 ± 37.5437 keV

Δ: 3336.8 ± 116.164 keV

penalty: 0.0933352

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

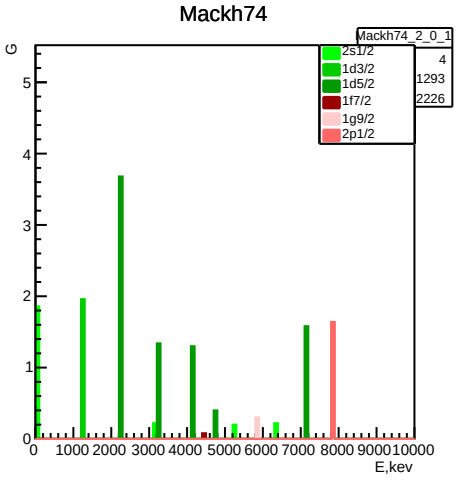
-7122.88 2s1/2 0.7025 0.765

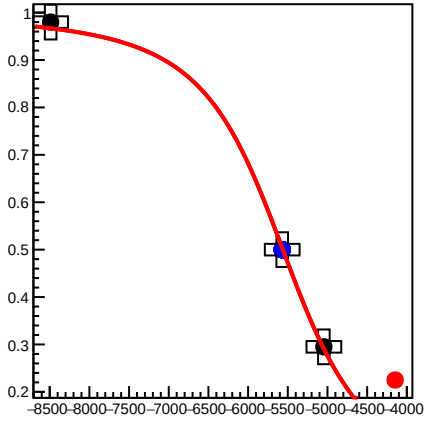
-4190.12 1d3/2 0.3 0.78

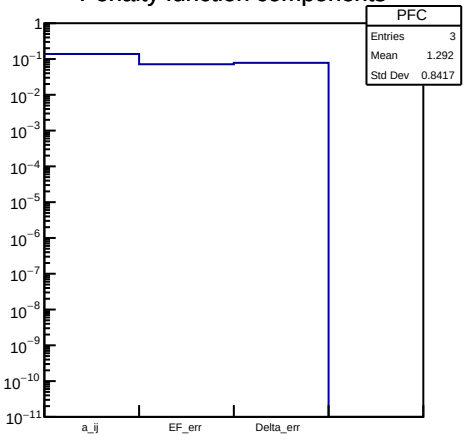
-5570.33 1d5/2 0.5 0.88

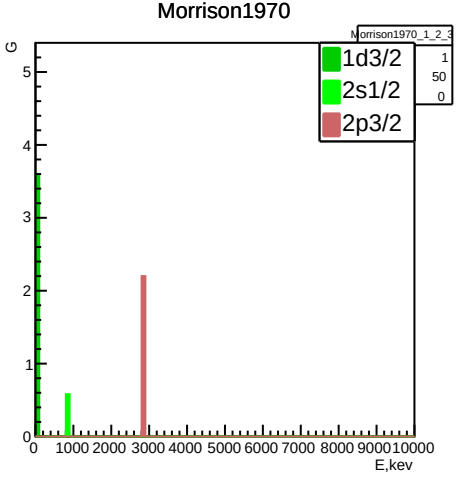
-4227.63 1f5/2 0.075 0.85

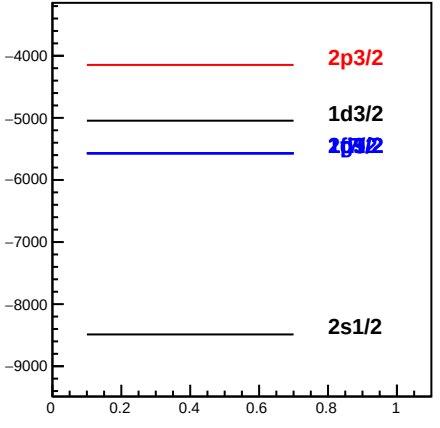
-4147.18 2p3/2 -0.115 1.23











Experiment: Mackh74 (13) Morrison1970 (3)

proton transfer

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

E_F: -5562.02 ± 29.8319 keV

Δ: 1120.76 ± 99.4897 keV

penalty: 0.0958554

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

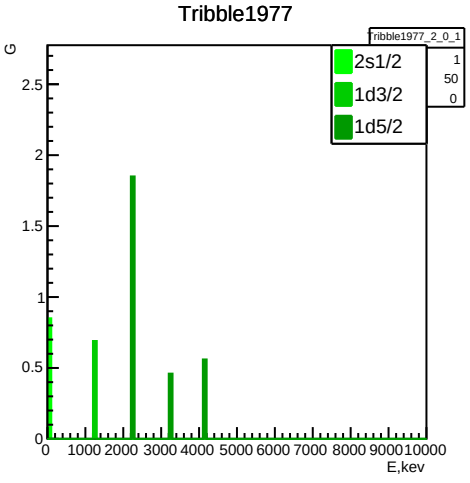
-8488.22 2s1/2 0.98 1.54

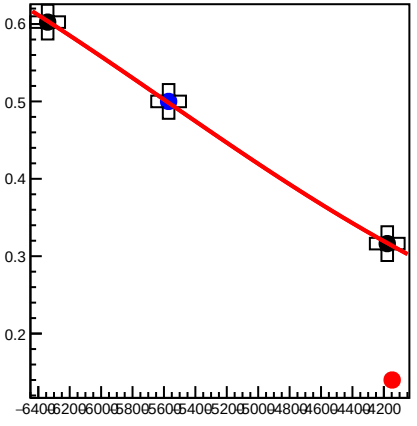
-5045.4 1d3/2 0.295 1.39

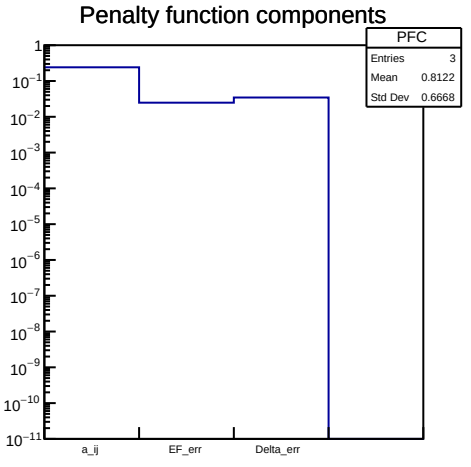
-5570.33 1d5/2 0.5 2.76667

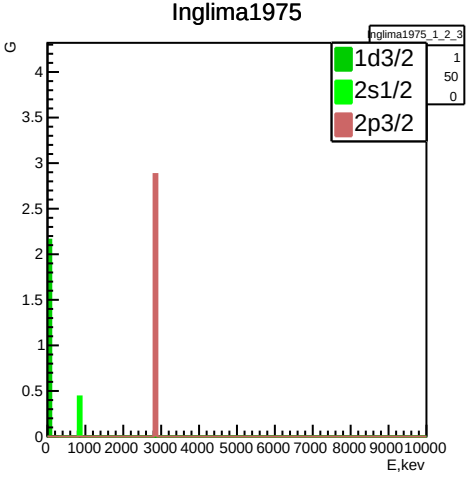
-5570.33 1f7/2 0.5 0.02

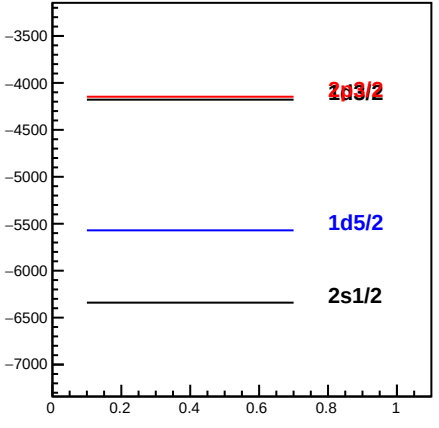
-5570.33 1g9/2 0.5 0.06











Experiment: Tribble1977 (5) Inglima1975 (3)

proton transfer

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

E_F: -5582.95 ± 10.3683 keV

Δ: 3570.44 ± 44.0071 keV

penalty: 0.100271

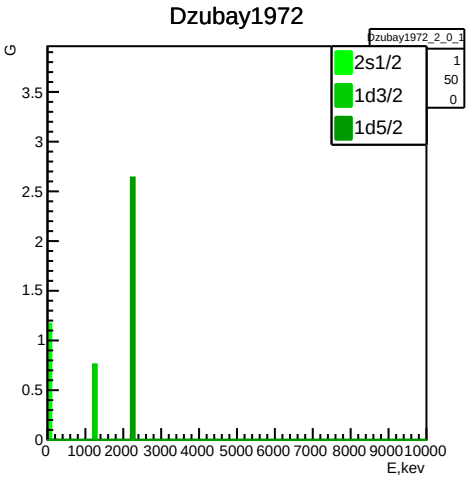
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

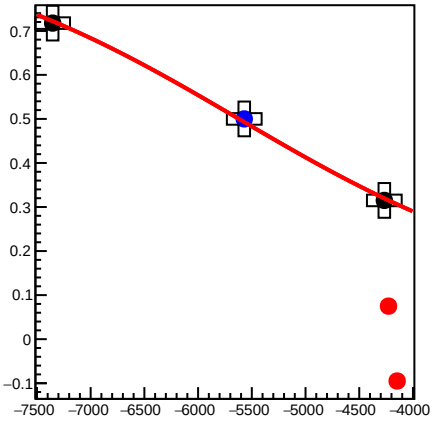
-6340.43 2s1/2 0.6025 0.645

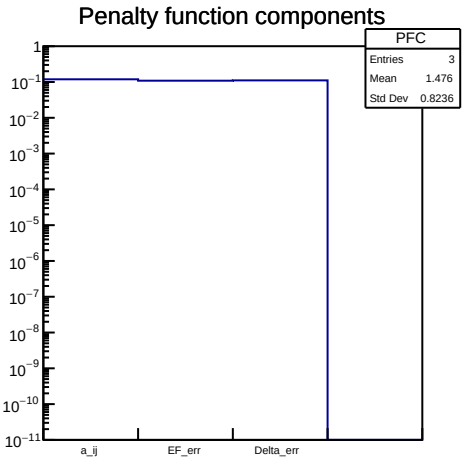
-4178.46 1d3/2 0.31625 0.7125

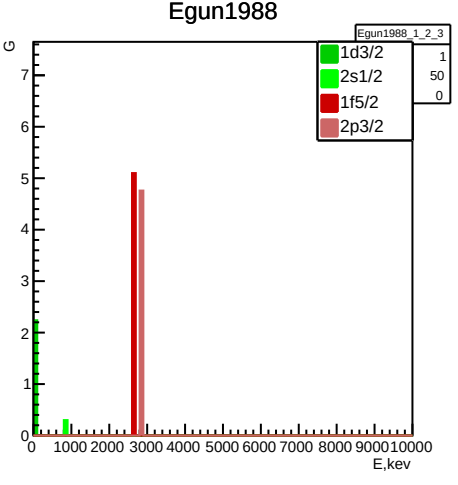
-5570.33 1d5/2 0.5 0.956667

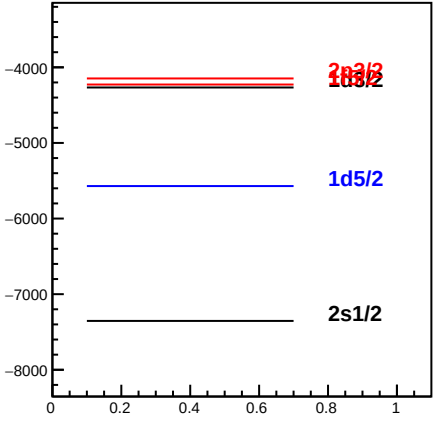
-4147.18 2p3/2 0.14 0.72











Experiment: Dzubay1972 (3) Egun1988 (4)

proton transfer

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

E_F: -5620.23 ± 45.509 keV

Δ: 3500.97 ± 141.292 keV

penalty: 0.112929

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

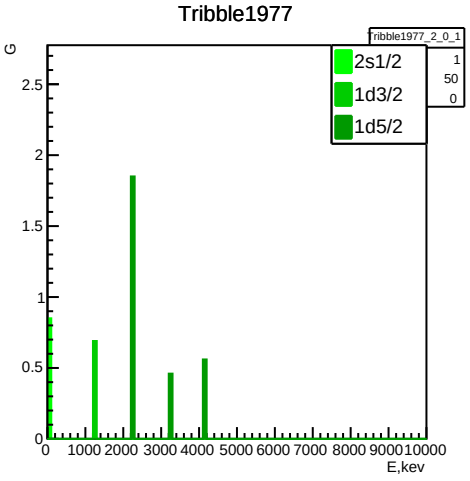
-7353.74 2s1/2 0.7175 0.735

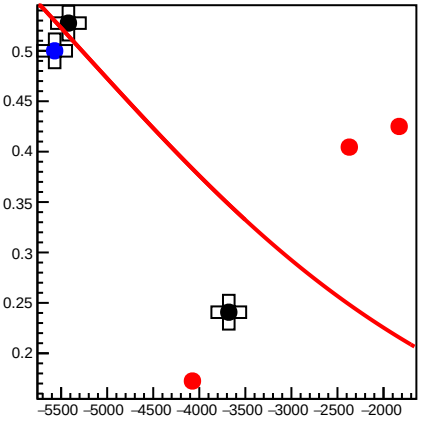
-4266.62 1d3/2 0.315 0.75

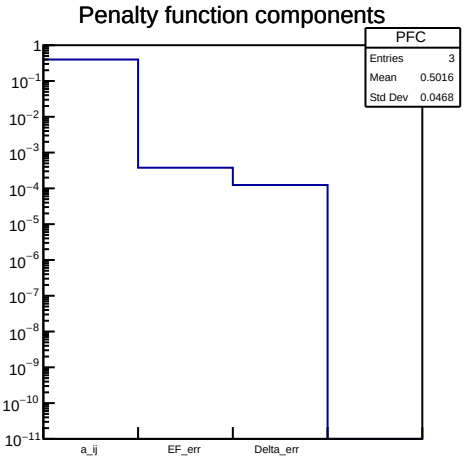
-5570.33 1d5/2 0.5 0.88

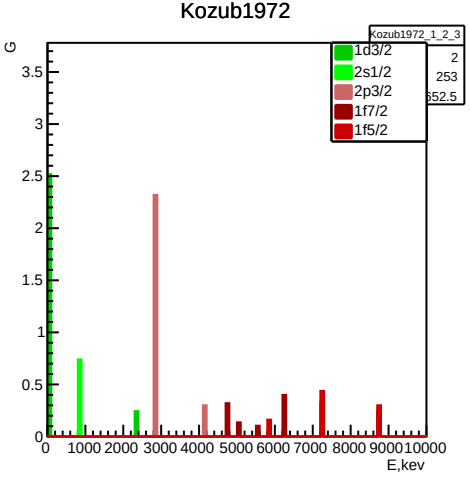
-4227.63 1f5/2 0.075 0.85

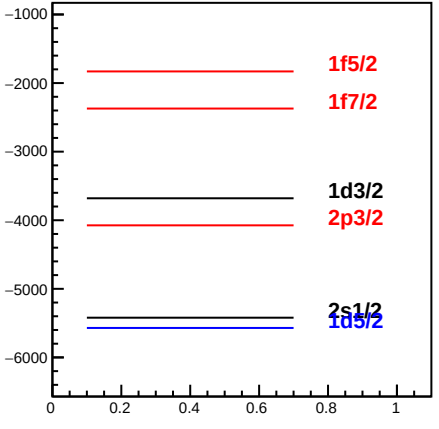
-4147.18 2p3/2 -0.095 1.19











Experiment: Tribble1977 (5) Kozub1972 (14)

proton transfer

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

E_F: -5273.13 ± 0.157976 keV

Δ: 4980.73 ± 0.157976 keV

penalty: 0.13288

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

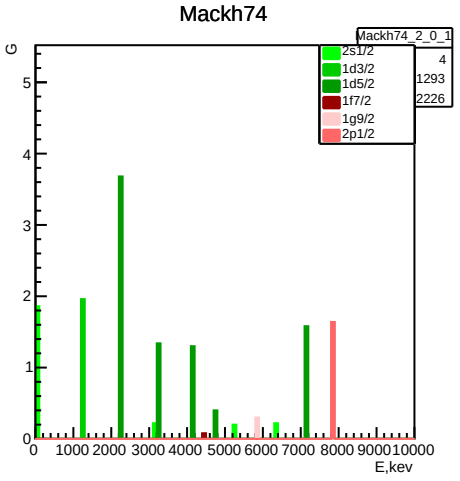
-5420.9 2s1/2 0.5275 0.795

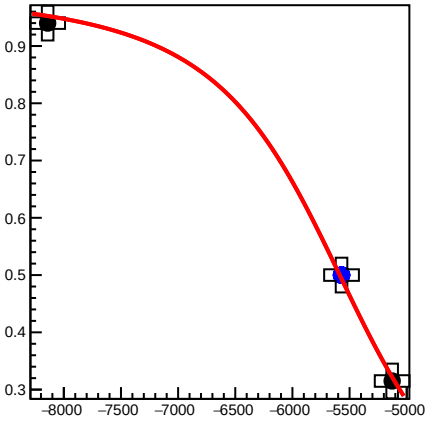
-3679.89 1d3/2 0.24075 0.8635

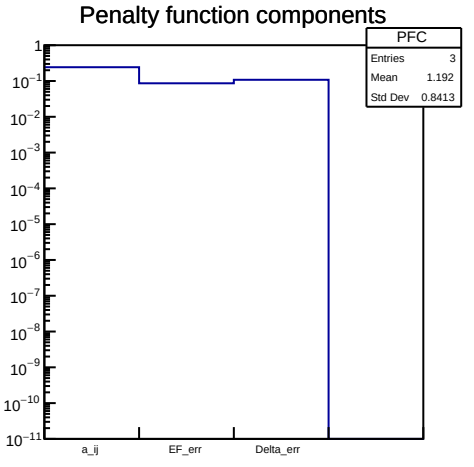
-5570.33 1d5/2 0.5 0.956667

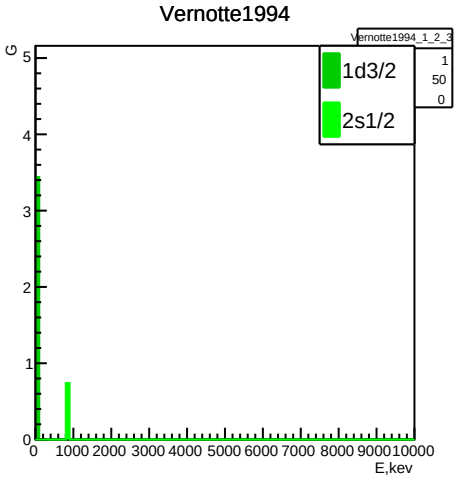
-4074.41 2p3/2 0.1725 0.655

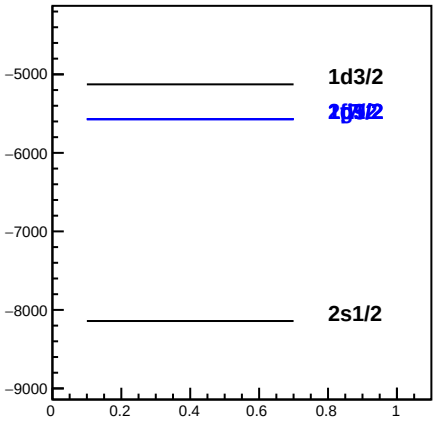
-2371.54 1f7/2 0.4045 0.191











Experiment: Mackh74 (13) Vernotte1994 (2)

proton transfer

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

E_F: -5586.02 ± 36.097 keV

Δ: -1202.43 ± 137.652 keV

penalty: 0.145735

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

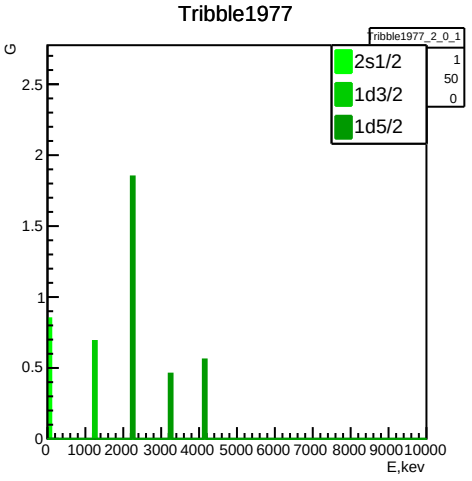
-8141.49 2s1/2 0.94 1.62

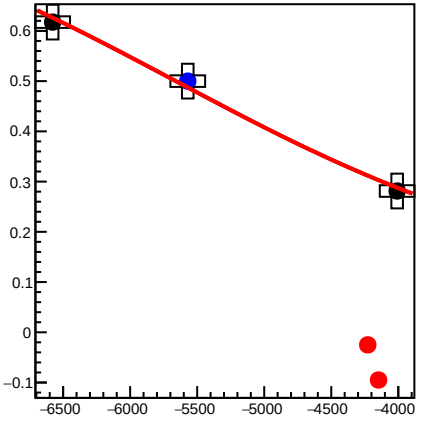
-5127.41 1d3/2 0.315 1.35

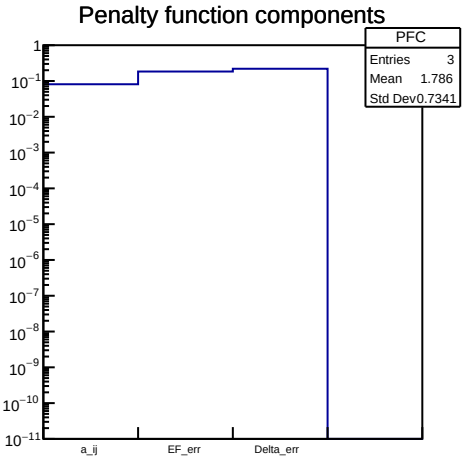
-5570.33 1d5/2 0.5 2.76667

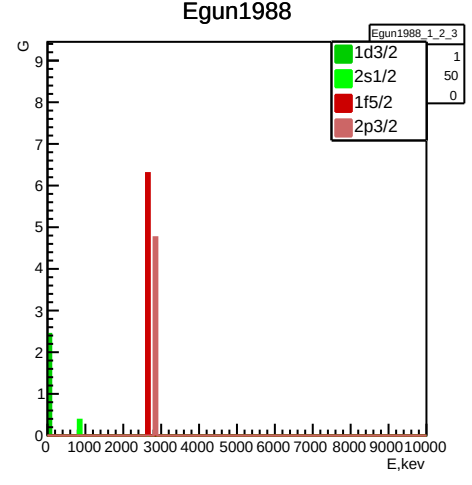
-5570.33 1f7/2 0.5 0.02

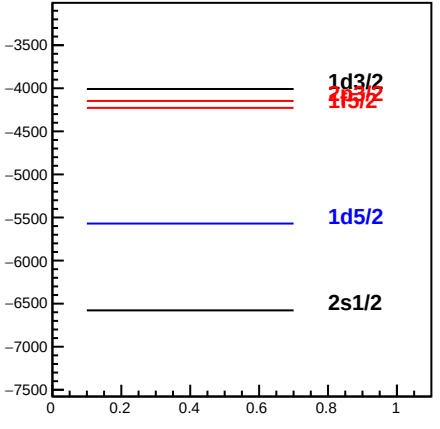
-5570.33 1g9/2 0.5 0.06











Experiment: Tribble1977 (5) Egun1988 (4)

proton transfer

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

E_F: -5659.47 ± 76.958 keV

Δ: 3526.16 ± 279.908 keV

penalty: 0.161675

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

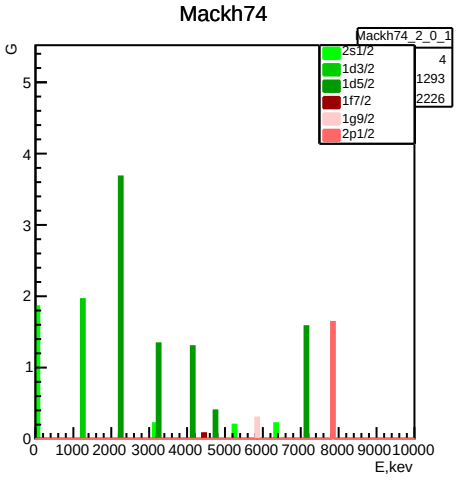
-6578.16 2s1/2 0.6175 0.615

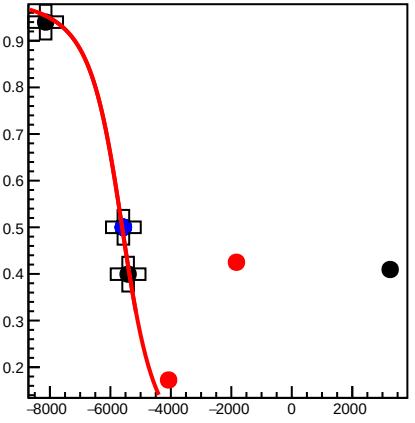
-4008.41 1d3/2 0.28125 0.7825

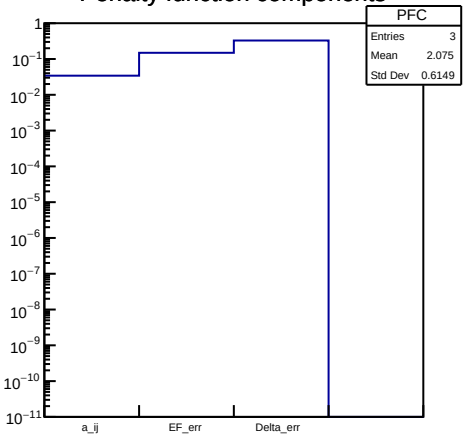
-5570.33 1d5/2 0.5 0.956667

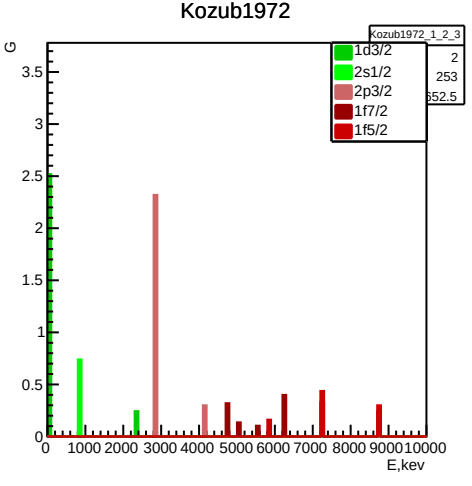
-4227.63 1f5/2 -0.025 1.05

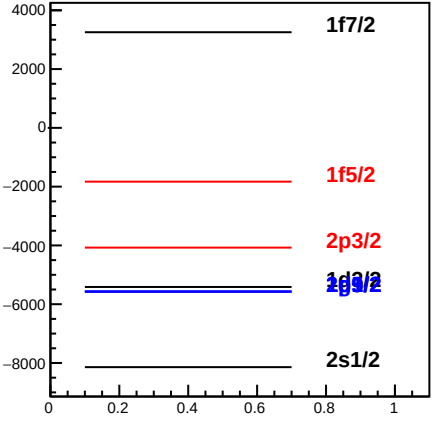
-4147.18 2p3/2 -0.095 1.19











Experiment: Mackh74 (13) Kozub1972 (14)

proton transfer

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

E_F: -5611.75 ± 62.3354 keV

Δ: -1173.65 ± 418.192 keV

penalty: 0.170576

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

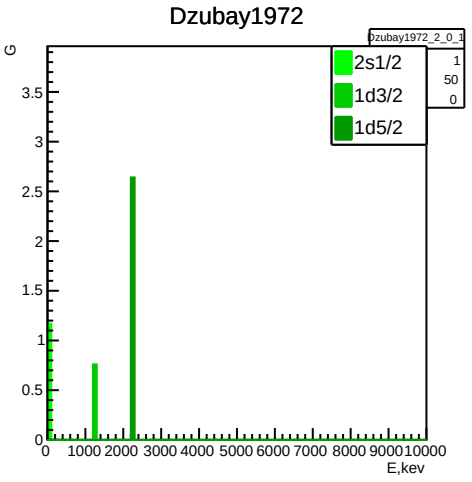
-8141.49 2s1/2 0.94 1.62

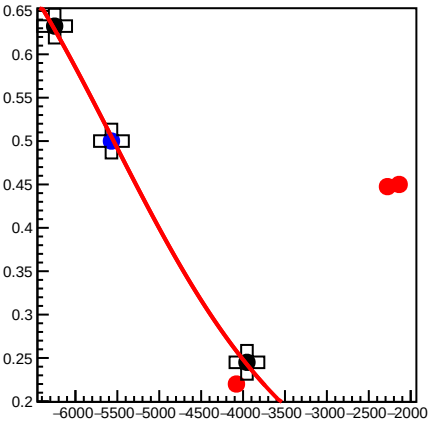
-5413.75 1d3/2 0.3995 1.181

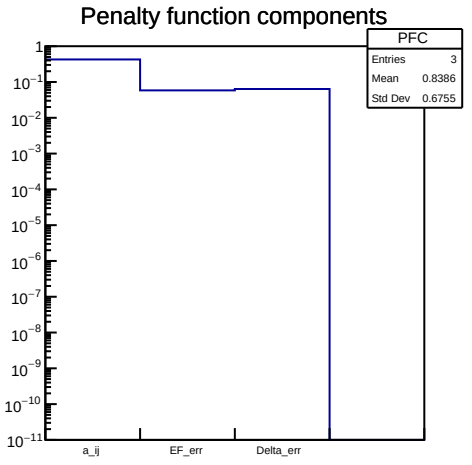
-5570.33 1d5/2 0.5 2.76667

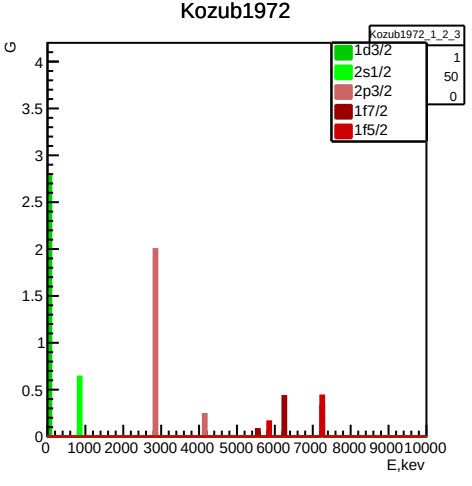
3253.7 1f7/2 0.4095 0.201

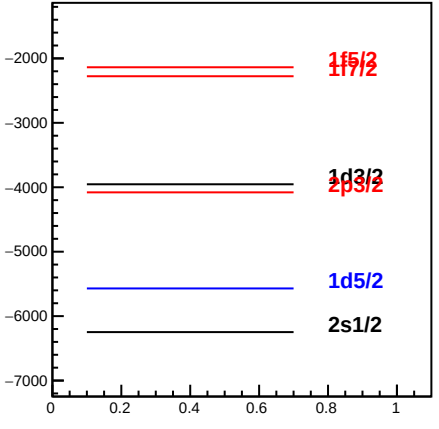
-5570.33 1g9/2 0.5 0.06











Experiment: Dzubay1972 (3) Kozub1972 (9)

proton transfer

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

E_F: -5543.93 ± 24.3937 keV

Δ: 2647.54 ± 81.1627 keV

penalty: 0.182913

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

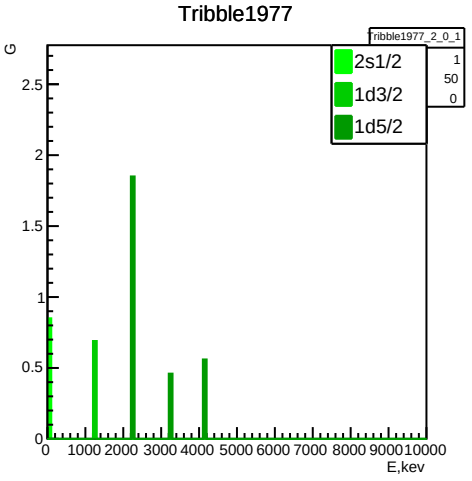
-6247.93 2s1/2 0.6325 0.905

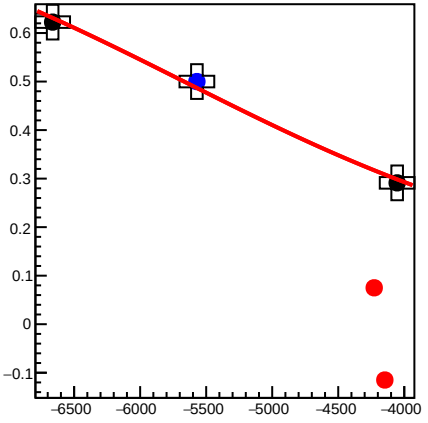
-3953.73 1d3/2 0.245 0.89

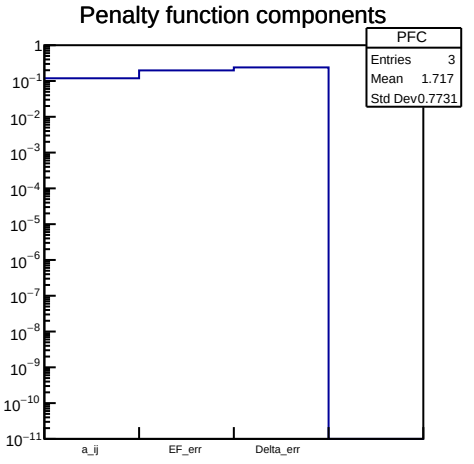
-5570.33 1d5/2 0.5 0.88

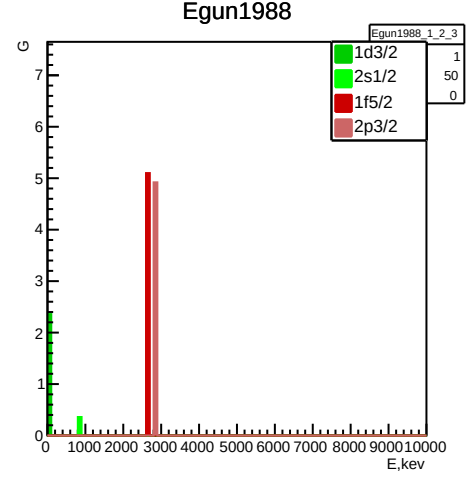
-4079.08 2p3/2 0.22 0.56

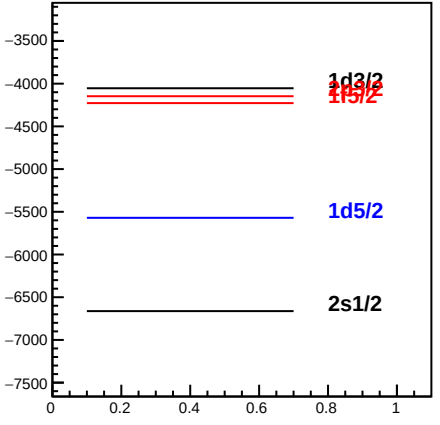
-2277 1f7/2 0.4475 0.105











Experiment: Tribble1977 (5) Egun1988 (4)

proton transfer

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

E_F: -5667.44 ± 82.7504 keV

Δ: 3664.16 ± 305.272 keV

penalty: 0.185599

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

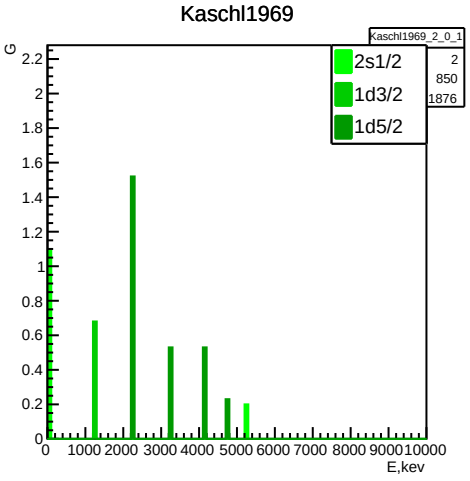
-6662.64 2s1/2 0.6225 0.605

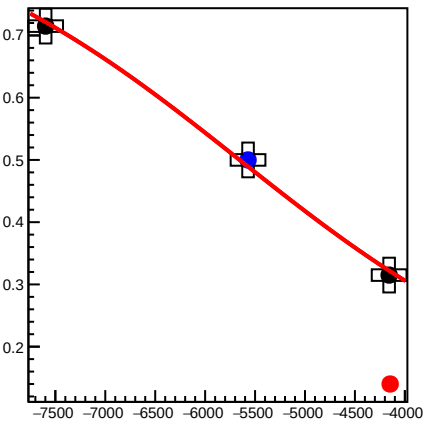
-4053.81 1d3/2 0.29125 0.7625

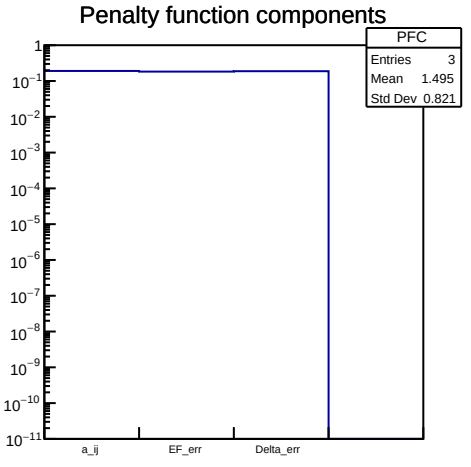
-5570.33 1d5/2 0.5 0.956667

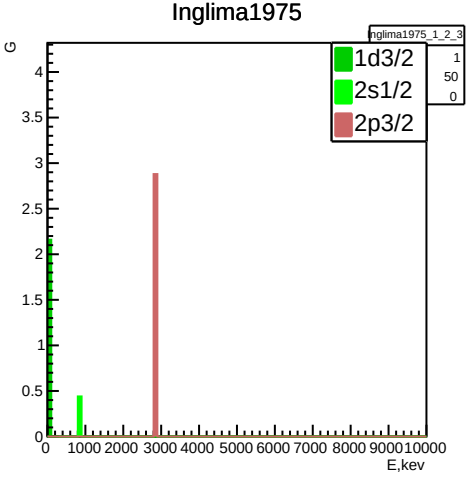
-4227.63 1f5/2 0.075 0.85

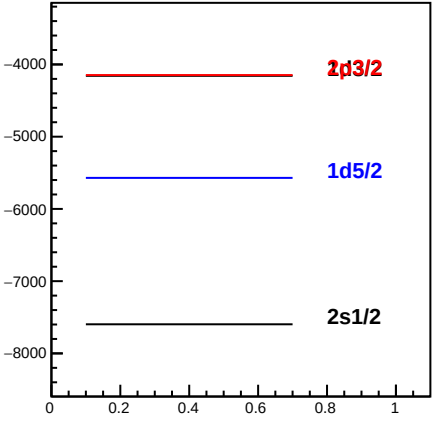
-4147.18 2p3/2 -0.115 1.23











Experiment: Kaschl1969 (7) Inglima1975 (3)

proton transfer

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

E_F: -5654.62 ± 76.5817 keV

Δ: 3933.39 ± 239.188 keV

penalty: 0.187269

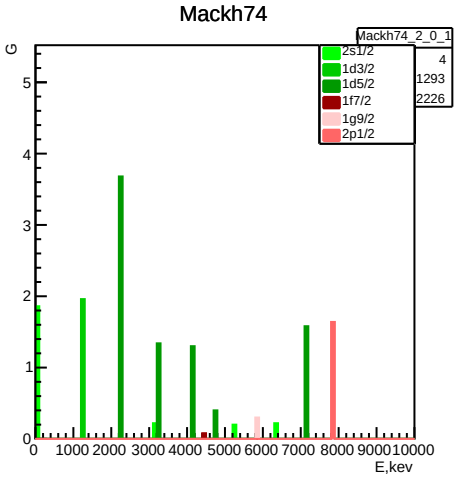
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

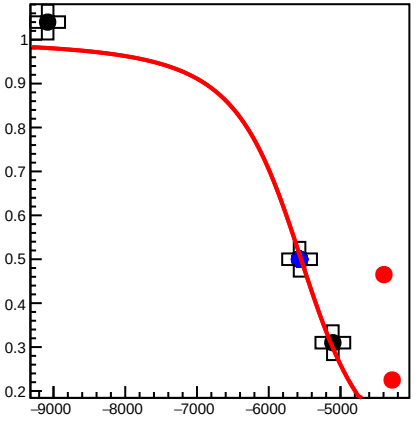
-7597.09 2s1/2 0.715 0.87

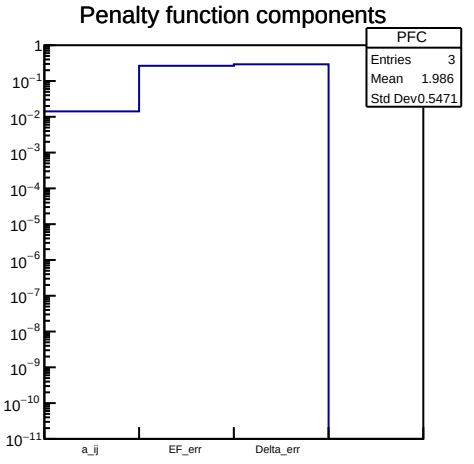
-4157.51 1d3/2 0.315 0.71

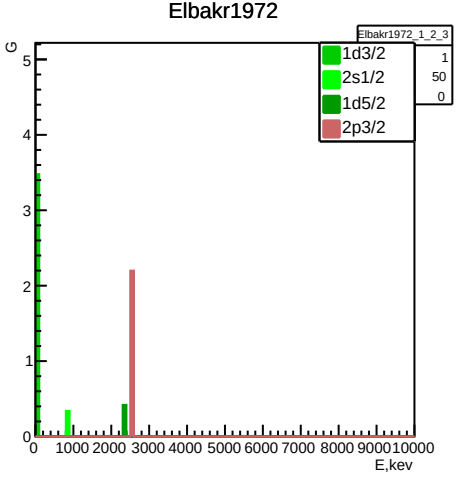
-5570.33 1d5/2 0.5 0.936667

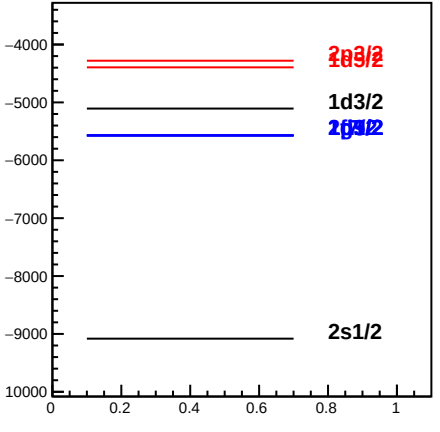
-4147.18 2p3/2 0.14 0.72











Experiment: Mackh74 (13) Elbakr1972 (4)

proton transfer

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

E_F: -5549.45 ± 111.219 keV

Δ: -1003.59 ± 372.709 keV

penalty: 0.190944

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

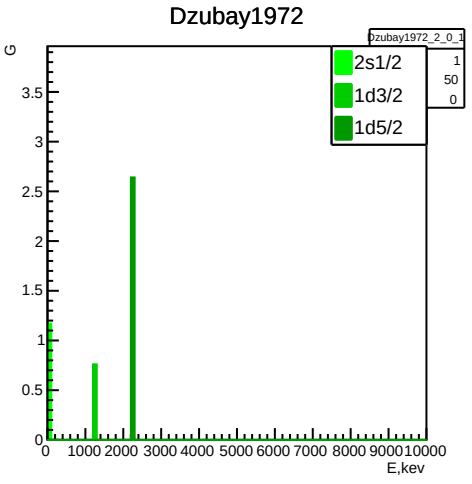
-9081.56 2s1/2 1.04 1.42

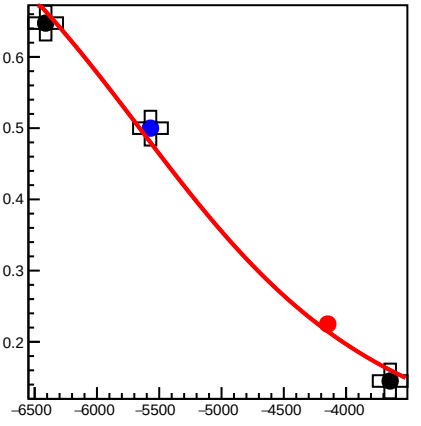
-5106.46 1d3/2 0.31 1.36

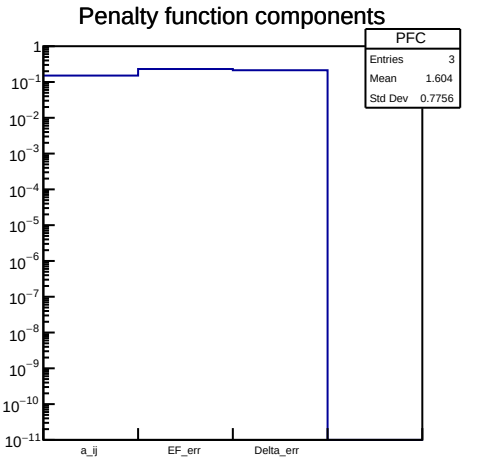
-5570.33 1d5/2 0.5 2.76667

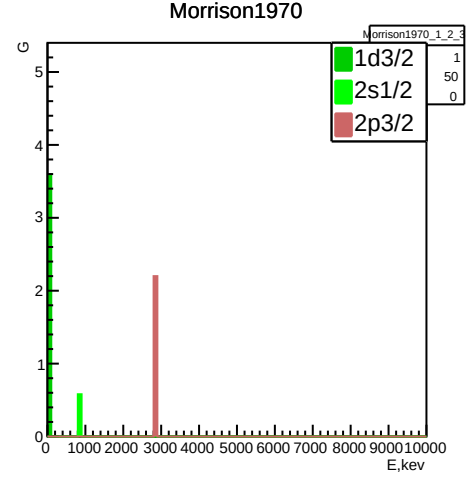
-5570.33 1f7/2 0.5 0.02

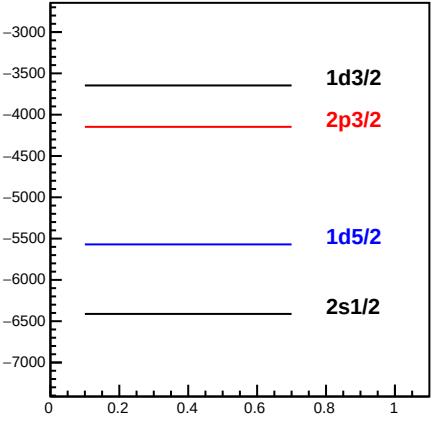
-5570.33 1g9/2 0.5 0.06











Experiment: Dzubay1972 (3) Morrison1970 (3

proton transfer

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

E_F: -5657.44 ± 96.4852 keV

Δ: -2172.8 ± 271.497 keV

penalty: 0.198395

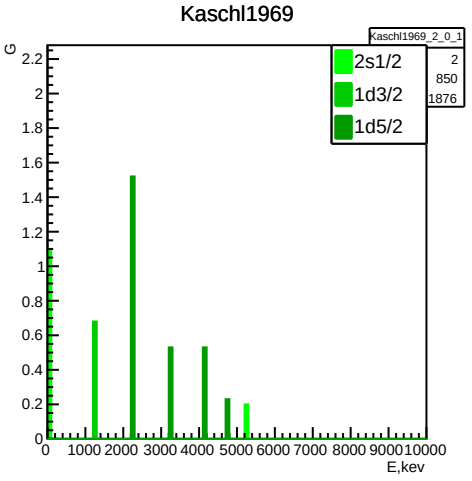
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

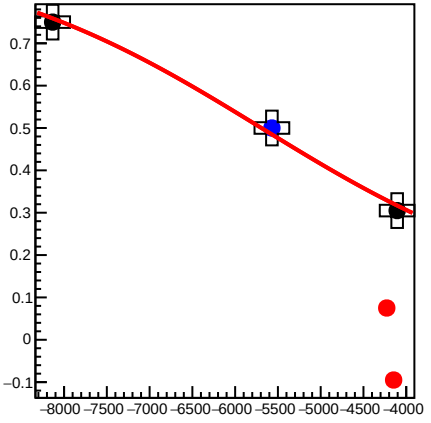
-6411.85 2s1/2 0.6475 0.875

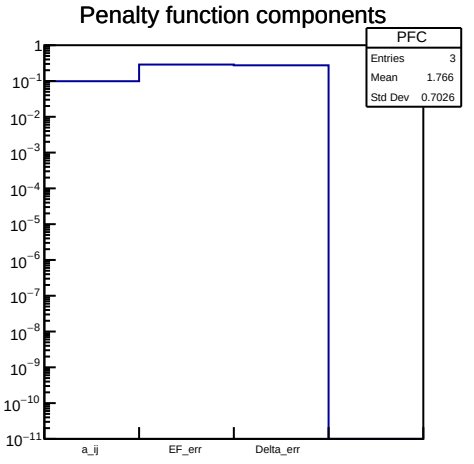
-3646.16 1d3/2 0.145 1.09

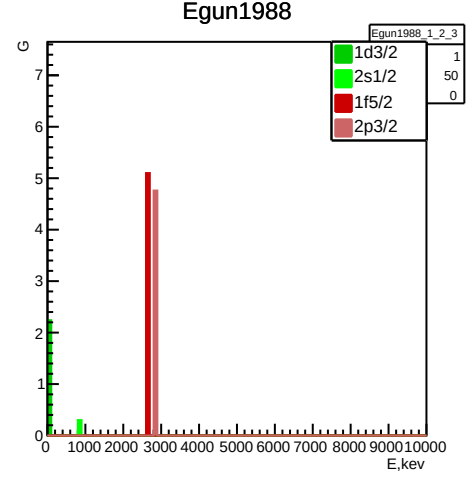
-5570.33 1d5/2 0.5 0.88

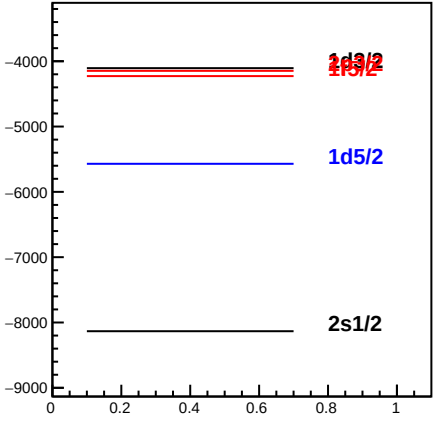
-4147.18 2p3/2 0.225 0.55











Experiment: Kaschl1969 (7) Egun1988 (4)

proton transfer

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

E_F: -5692.94 ± 120.505 keV

Δ: 4034.37 ± 349.496 keV

penalty: 0.220432

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

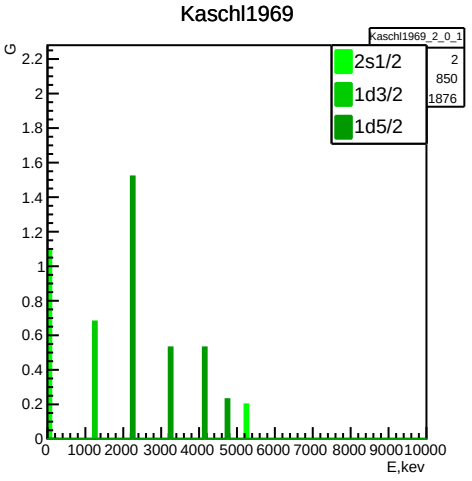
-8133.48 2s1/2 0.75 0.8

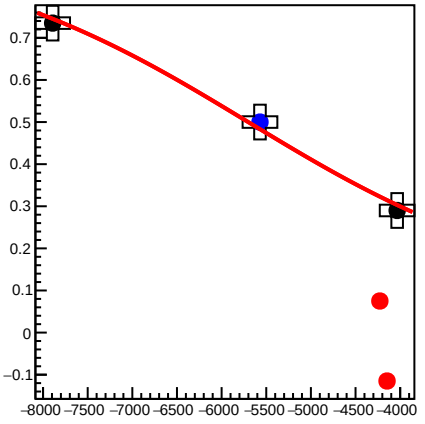
-4106 1d3/2 0.305 0.73

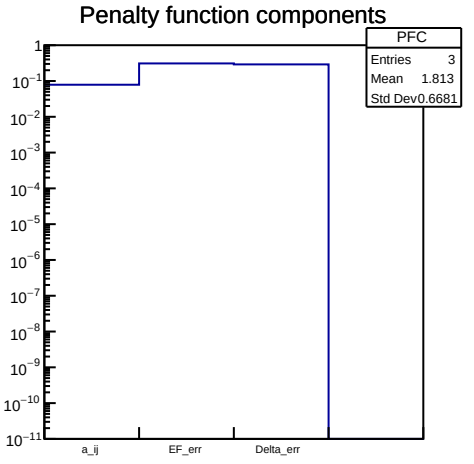
-5570.33 1d5/2 0.5 0.936667

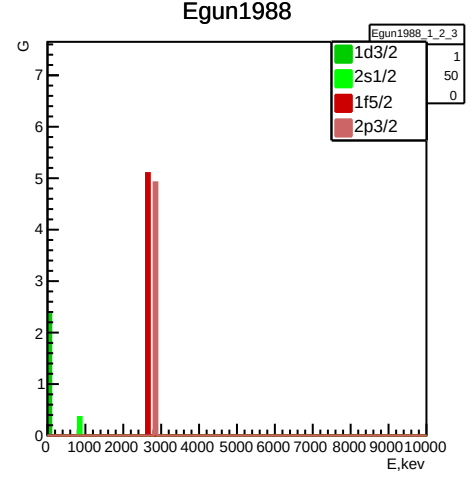
-4227.63 1f5/2 0.075 0.85

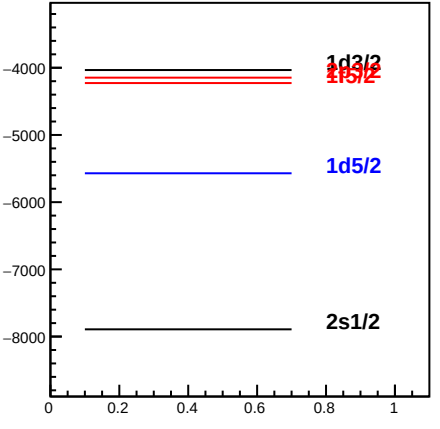
-4147.18 2p3/2 -0.095 1.19











Experiment: Kaschl1969 (7) Egun1988 (4)

proton transfer

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

E_F: -5702.05 ± 129.581 keV

Δ: 3892.85 ± 370.616 keV

penalty: 0.226529

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

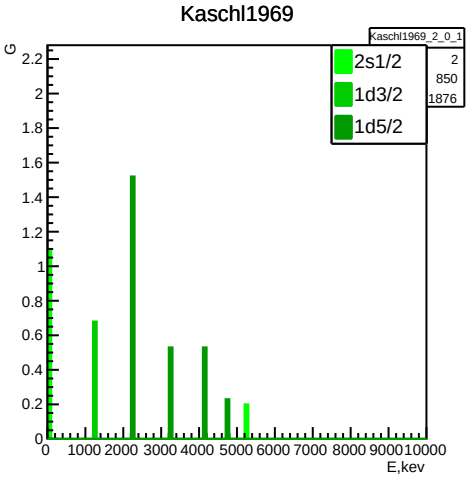
-7892.52 2s1/2 0.735 0.83

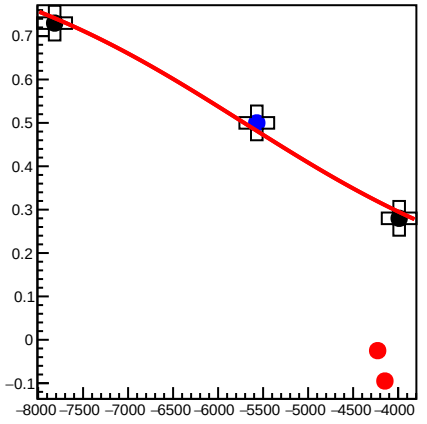
-4033.83 1d3/2 0.29 0.76

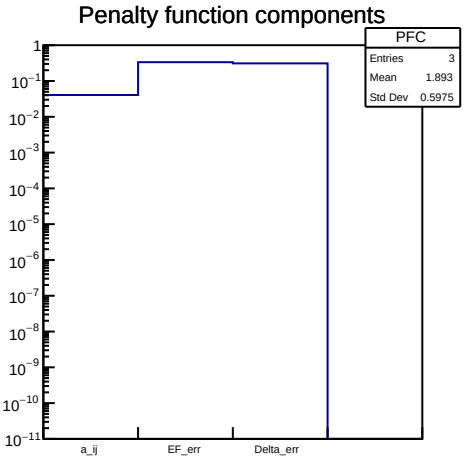
-5570.33 1d5/2 0.5 0.936667

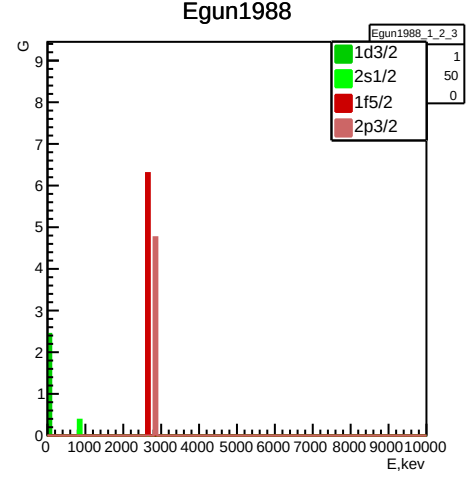
-4227.63 1f5/2 0.075 0.85

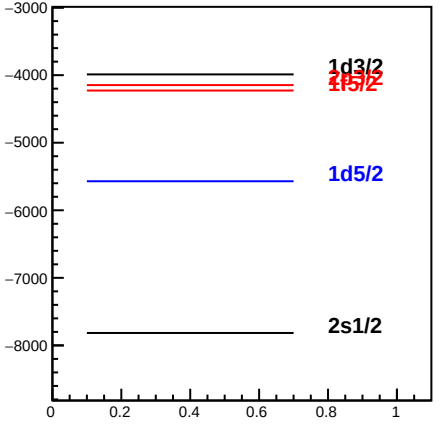
-4147.18 2p3/2 -0.115 1.23











Experiment: Kaschl1969 (7) Egun1988 (4)

proton transfer

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

E_F: -5710.67 ± 140.328 keV

Δ: 3817.77 ± 395.761 keV

penalty: 0.229011

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

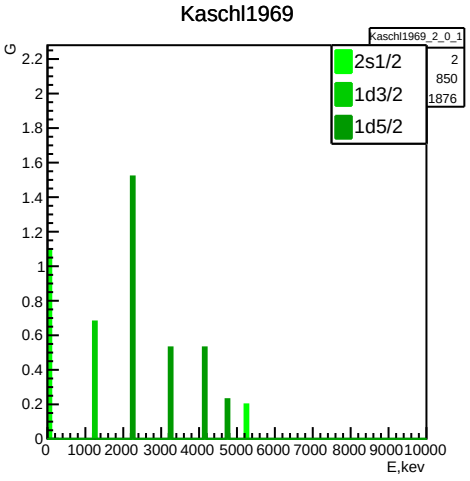
-7816.02 2s1/2 0.73 0.84

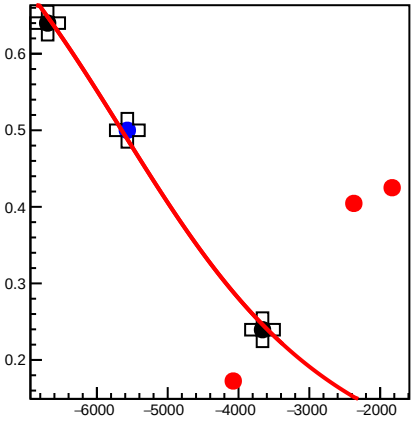
-3988.79 1d3/2 0.28 0.78

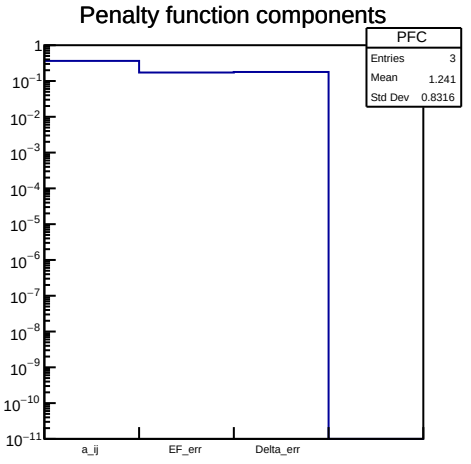
-5570.33 1d5/2 0.5 0.936667

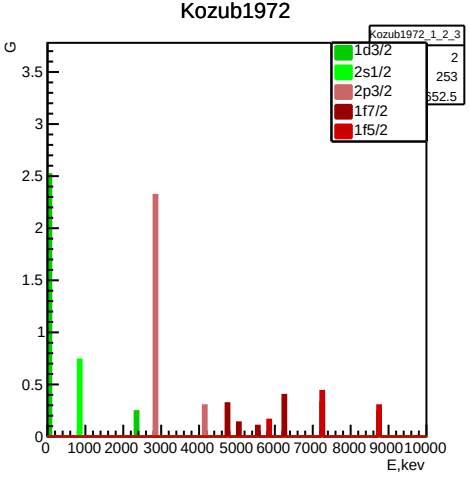
-4227.63 1f5/2 -0.025 1.05

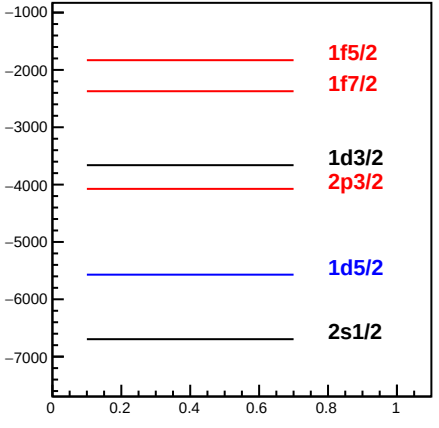
-4147.18 2p3/2 -0.095 1.19











Experiment: Kaschl1969 (7) Kozub1972 (14)

proton transfer

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

E_F: -5648.96 ± 72.1965 keV

Δ: 3374.95 ± 227.509 keV

penalty: 0.238568

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

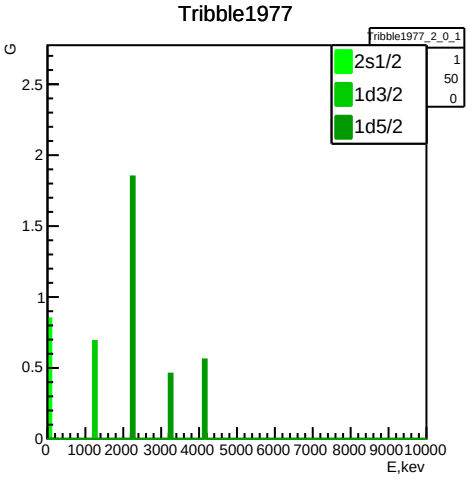
-6695.6 2s1/2 0.64 1.02

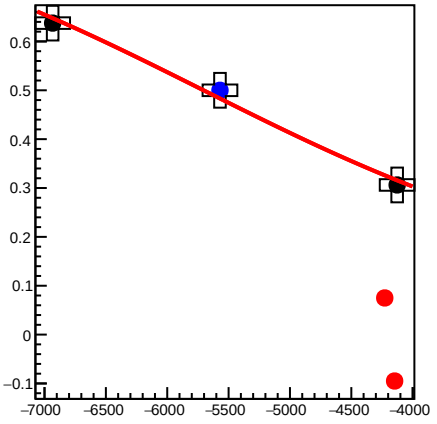
-3661.16 1d3/2 0.2395 0.861

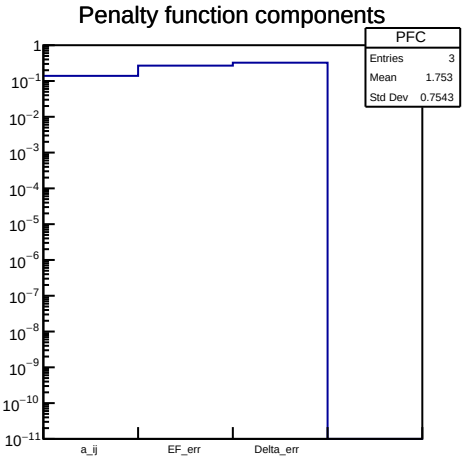
-5570.33 1d5/2 0.5 0.936667

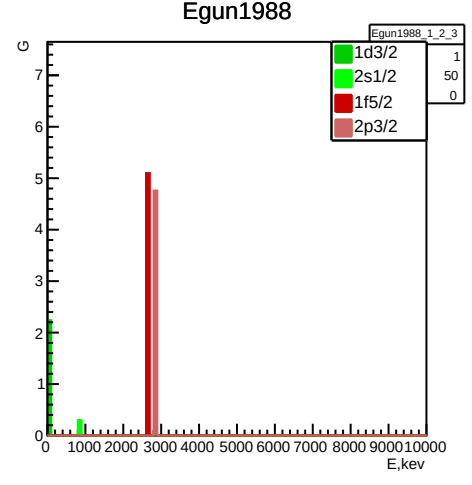
-4074.41 2p3/2 0.1725 0.655

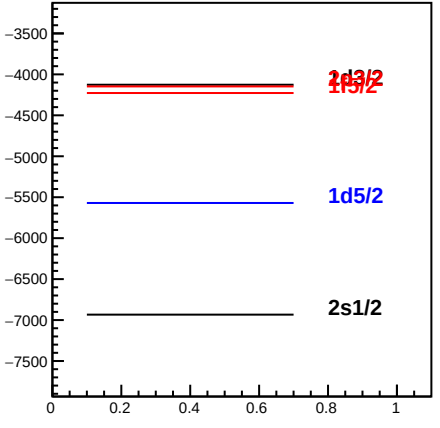
-2371.54 1f7/2 0.4045 0.191











Experiment: Tribble1977 (5) Egun1988 (4)

proton transfer

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

E_F: -5704.25 ± 112.446 keV

Δ: -3978.18 ± 413.501 keV

penalty: 0.244269

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

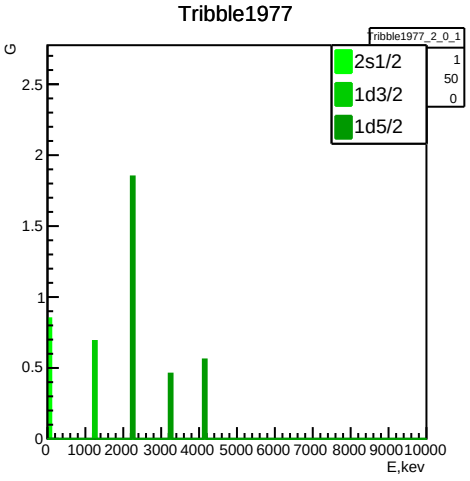
-6933.72 2s1/2 0.6375 0.575

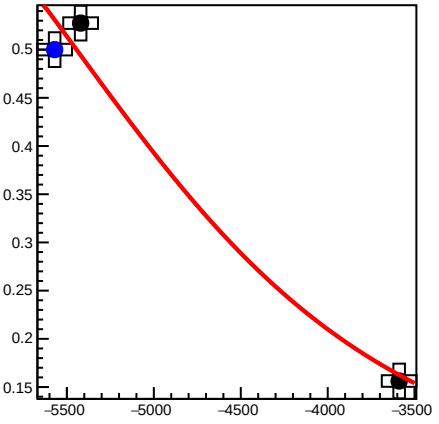
-4126.56 1d3/2 0.30625 0.7325

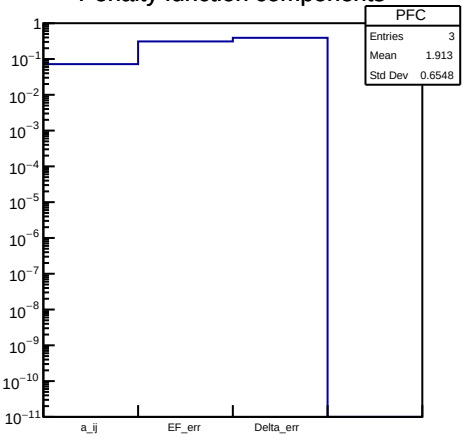
-5570.33 1d5/2 0.5 0.956667

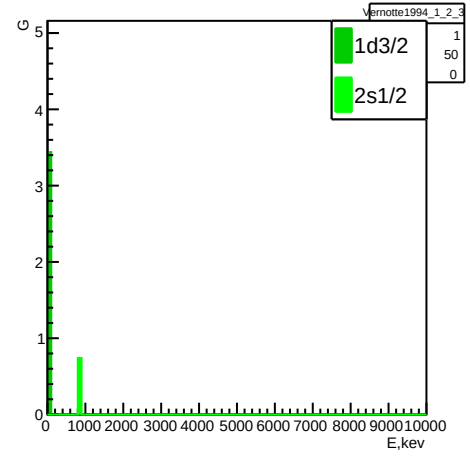
-4227.63 1f5/2 0.075 0.85

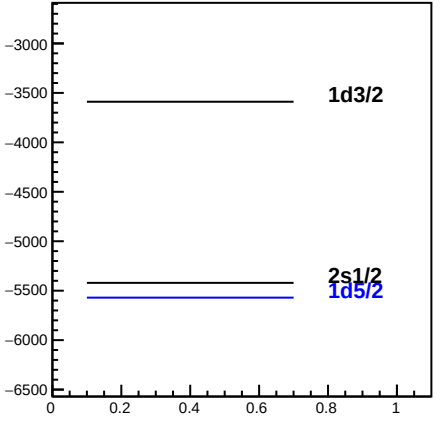
-4147.18 2p3/2 -0.095 1.19











Experiment: Tribble1977 (5) Vernotte1994 (2

proton transfer

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

E_F: -5444.52 $\pm$ 129.496 keV

Δ: -2028.1 $\pm$ 497.525 keV

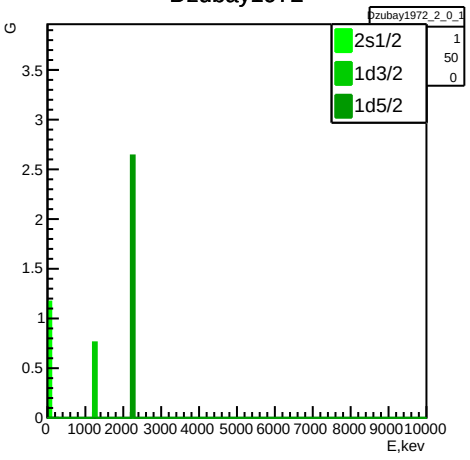
penalty: 0.25745

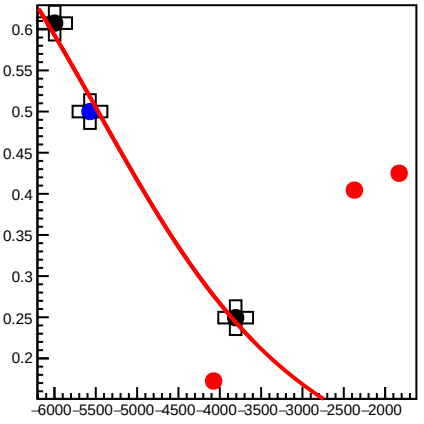
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

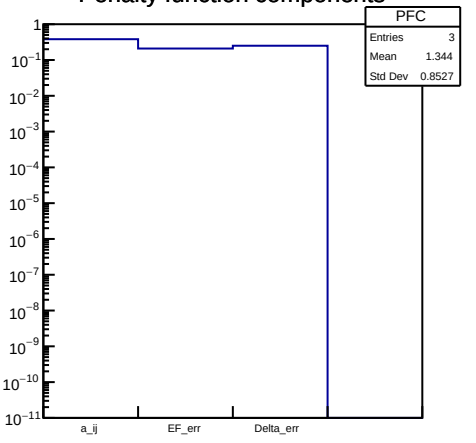
-5420.9 2s1/2 0.5275 0.795

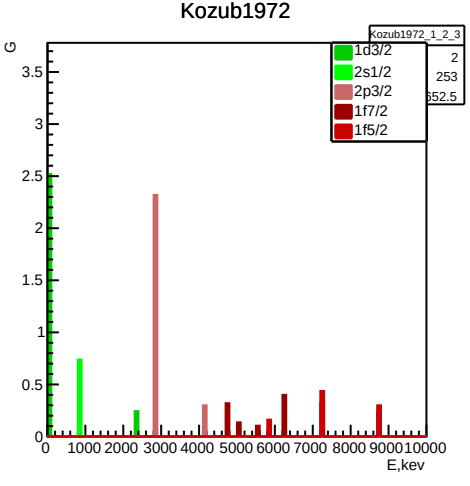
-3589.3 1d3/2 0.15625 1.0325

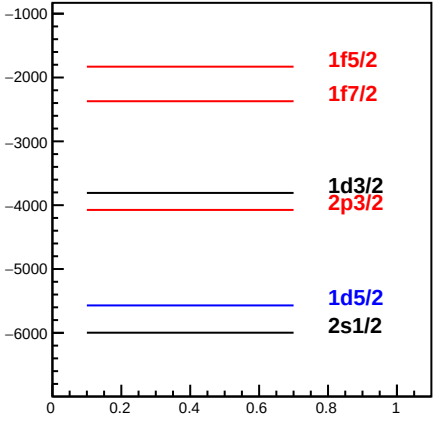
-5570.33 1d5/2 0.5 0.956667











Experiment: Dzubay1972 (3) Kozub1972 (14)

proton transfer

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

E_F: -5471.61 ± 87.5253 keV

Δ: 2791.47 ± 318.923 keV

penalty: 0.280367

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

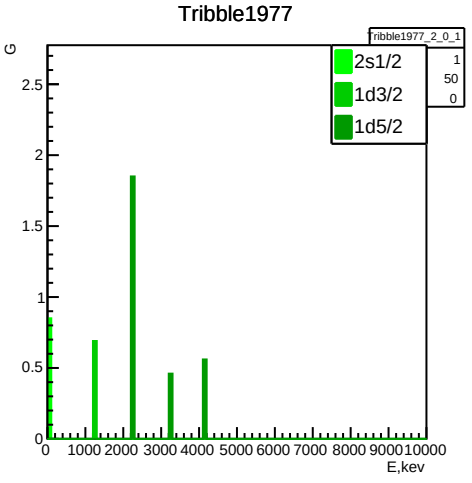
-5997.62 2s1/2 0.6075 0.955

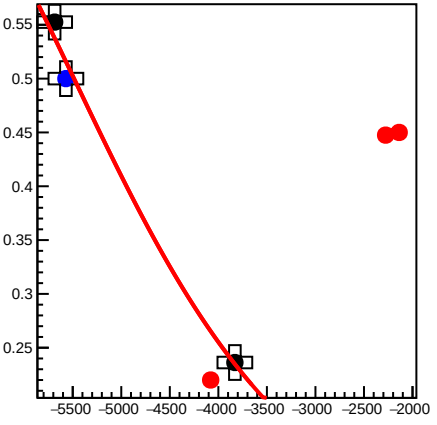
-3808 1d3/2 0.2495 0.881

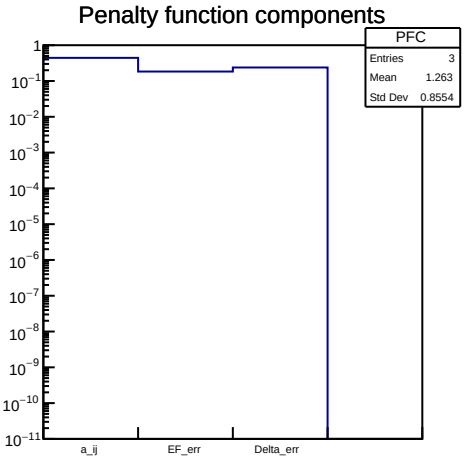
-5570.33 1d5/2 0.5 0.88

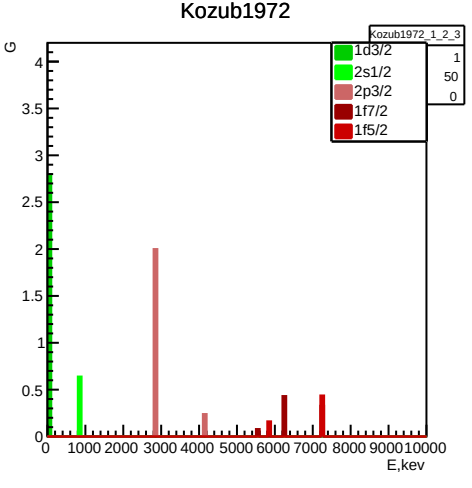
-4074.41 2p3/2 0.1725 0.655

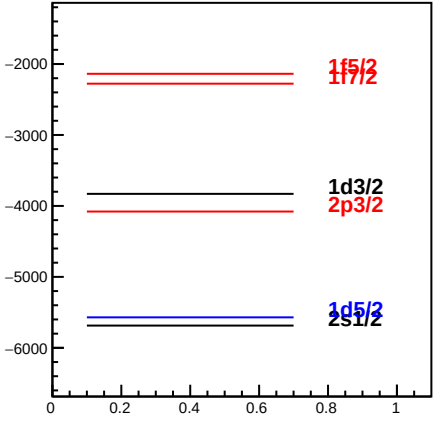
-2371.54 1f7/2 0.4045 0.191











Experiment: Tribble1977 (5) Kozub1972 (9)

proton transfer

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

E_F: -5486.49 ± 76.8576 keV

Δ: 2647.93 ± 303.623 keV

penalty: 0.288573

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

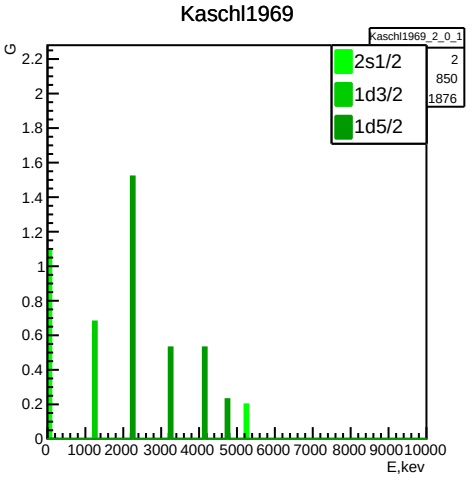
-5686.27 2s1/2 0.5525 0.745

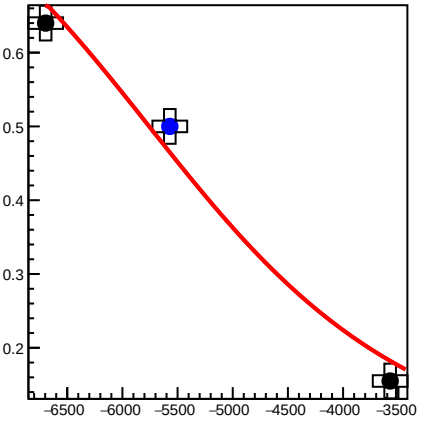
-3829.86 1d3/2 0.23625 0.8725

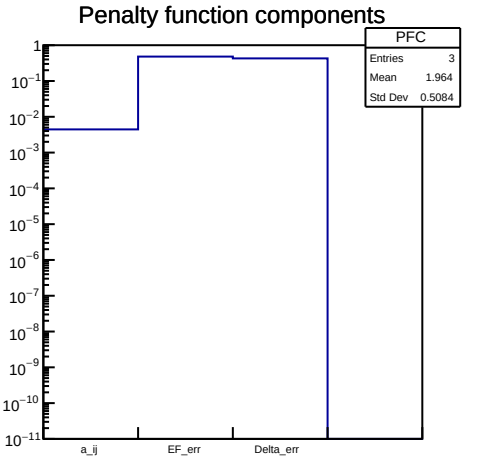
-5570.33 1d5/2 0.5 0.956667

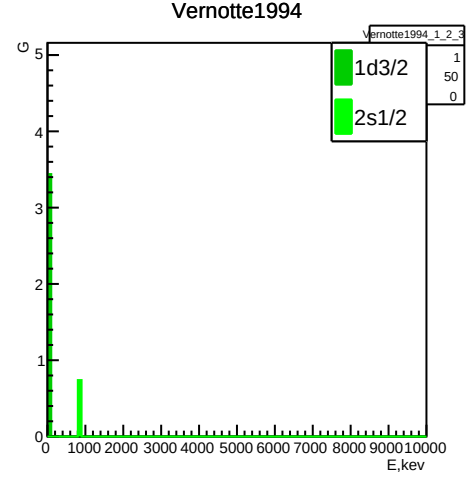
-4079.08 2p3/2 0.22 0.56

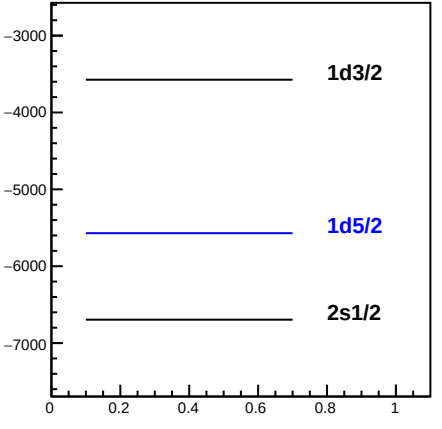
-2277 1f7/2 0.4475 0.105











Experiment: Kaschl1969 (7) Vernotte1994 (2

proton transfer

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

E_F: -5757.26 ± 201.161 keV

Δ: 2654.27 ± 545.179 keV

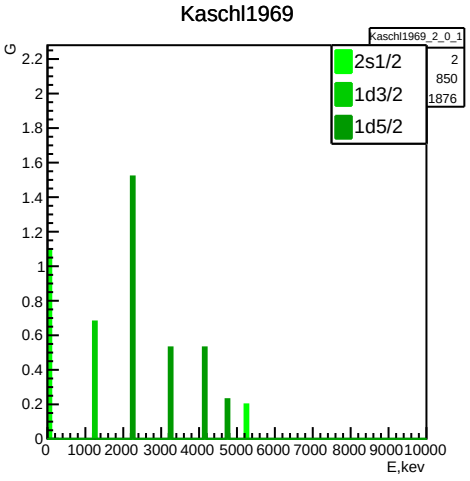
penalty: 0.304539

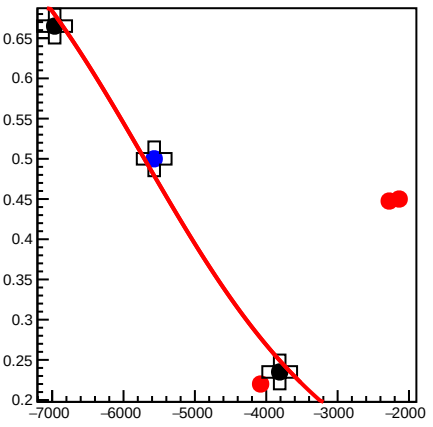
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

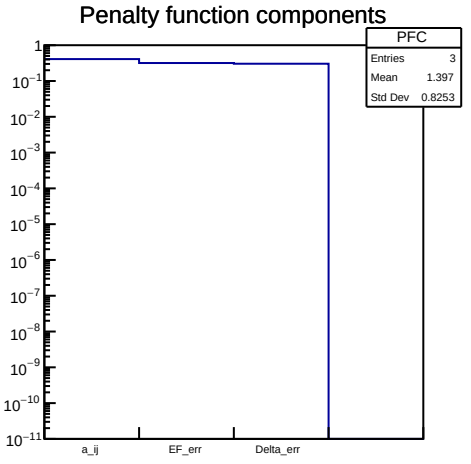
-6695.6 2s1/2 0.64 1.02

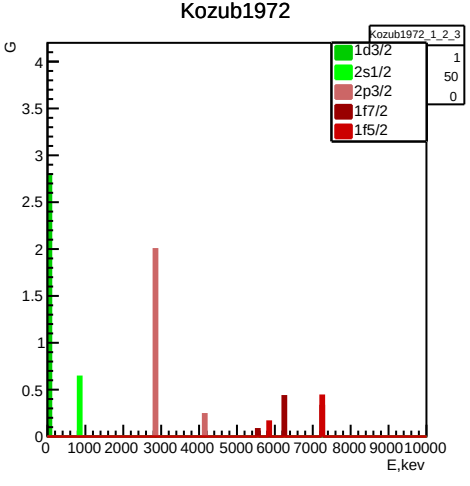
-3573.43 1d3/2 0.155 1.03

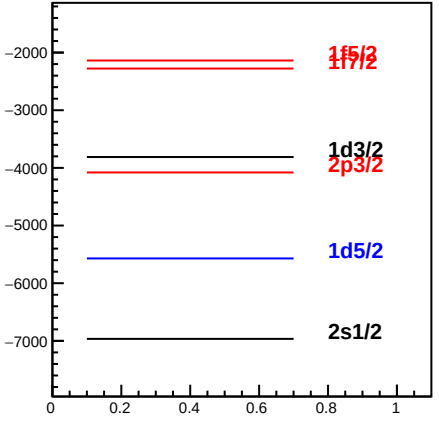
-5570.33 1d5/2 0.5 0.936667











Experiment: Kaschl1969 (7) Kozub1972 (9)

proton transfer

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

E_F: -5707.84 ± 133.026 keV

Δ: 3271.8 ± 386.812 keV

penalty: 0.343867

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

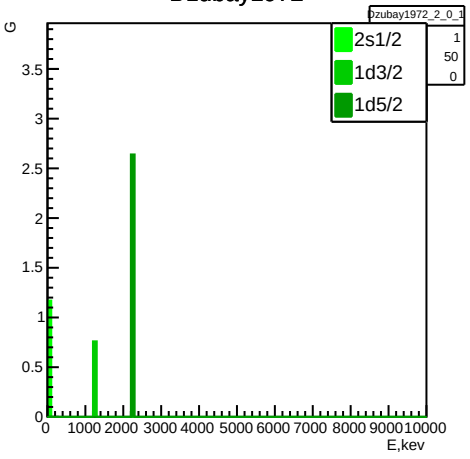
-6965.12 2s1/2 0.665 0.97

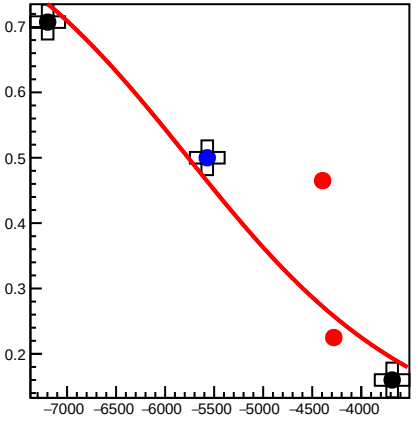
-3811.76 1d3/2 0.235 0.87

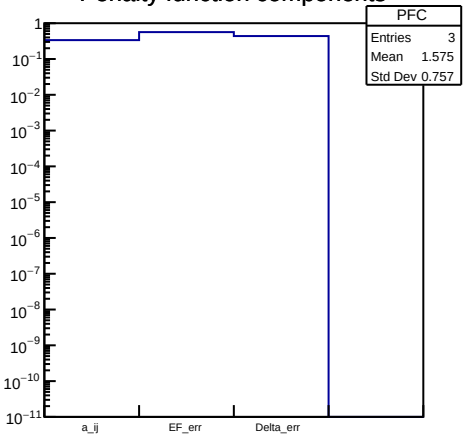
-5570.33 1d5/2 0.5 0.936667

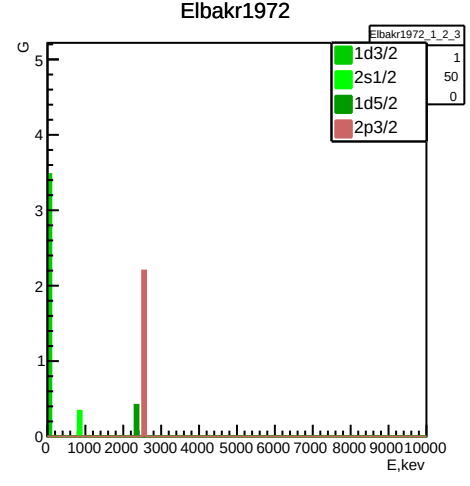
-4079.08 2p3/2 0.22 0.56

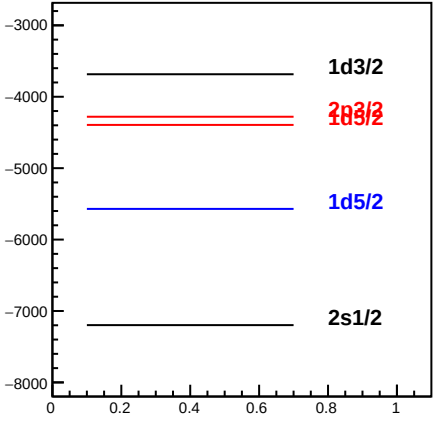
-2277 1f7/2 0.4475 0.105











Experiment: Dzubay1972 (3) Elbakr1972 (4)

proton transfer

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

E_F: -5764.47 ± 235.954 keV

Δ: 2680.43 ± 557.218 keV

penalty: 0.44627

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

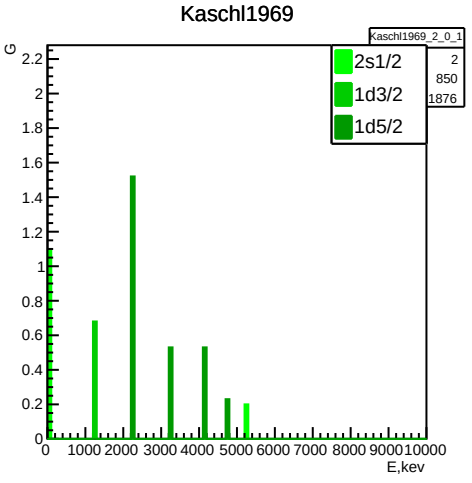
-7197.79 2s1/2 0.7075 0.755

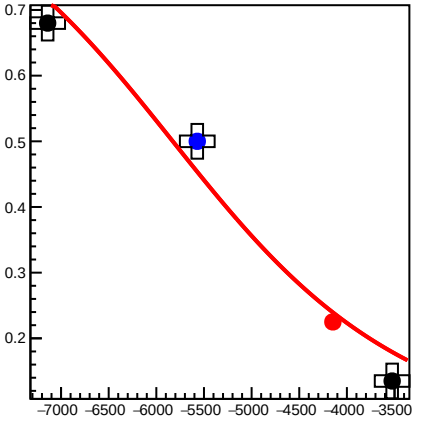
-3684.9 1d3/2 0.16 1.06

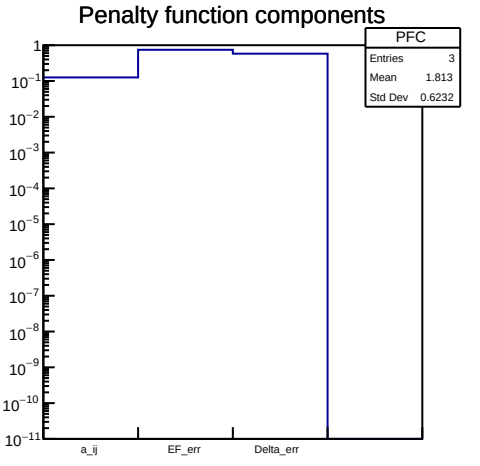
-5570.33 1d5/2 0.5 0.88

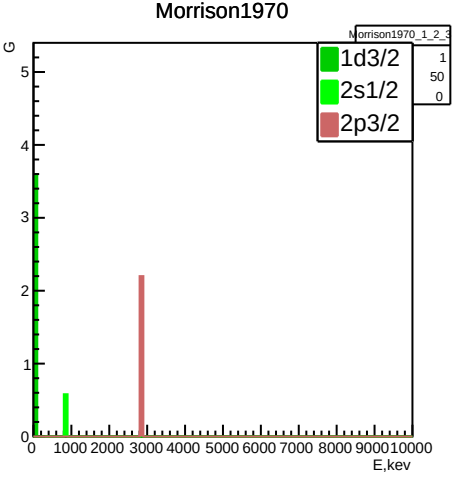
-4394.33 1d5/2 0.465 0.07

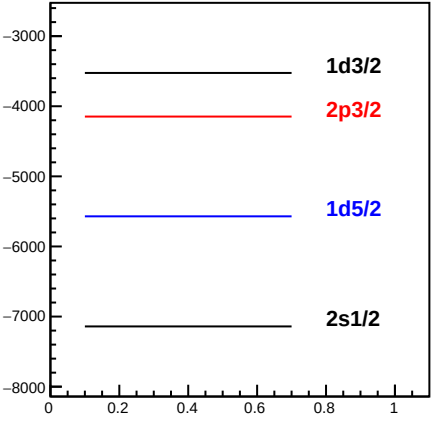
-4279.83 2p3/2 0.225 0.55











Experiment: Kaschl1969 (7) Morrison1970 (3

proton transfer

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

E_F: -5827.15 ± 311.804 keV

Δ: 2751.8 ± 738.687 keV

penalty: 0.483843

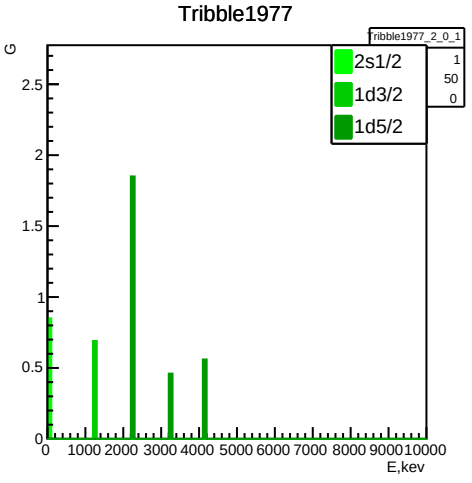
SPE,keV nlj OCC $\frac{G^{+}+G^{-}}{2J+1}$

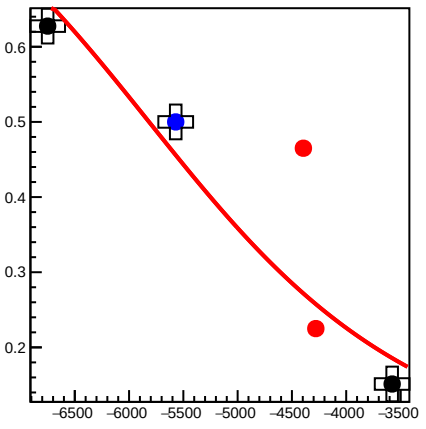
-7140.59 2s1/2 0.68 0.94

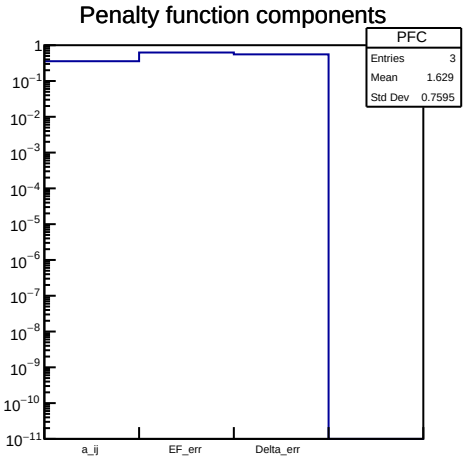
-3524.98 1d3/2 0.135 1.07

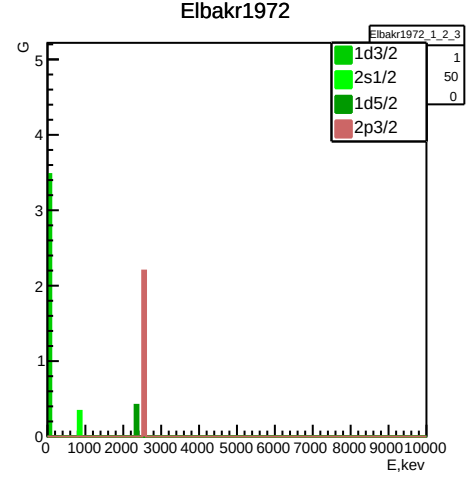
-5570.33 1d5/2 0.5 0.936667

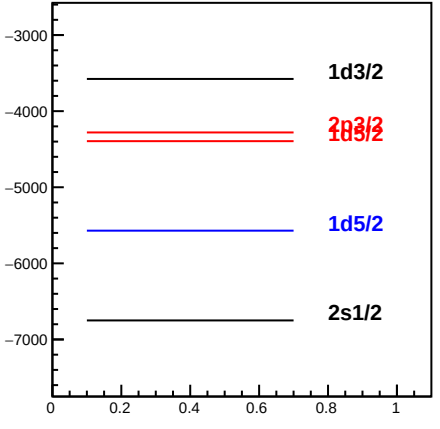
-4147.18 2p3/2 0.225 0.55











Experiment: Tribble1977 (5) Elbakr1972 (4)

proton transfer

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

E_F: -5815.95 ± 261.463 keV

Δ: -2770.82 ± 706.577 keV

penalty: 0.512429

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

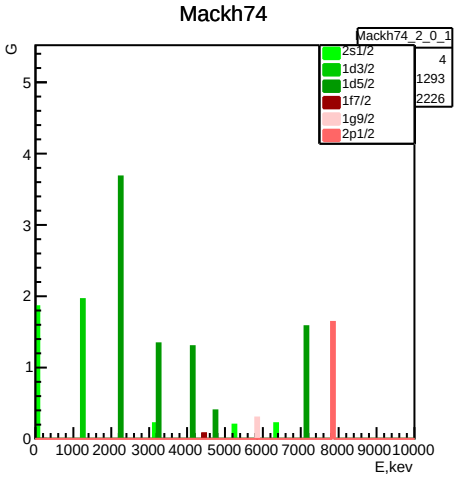
-6749.96 2s1/2 0.6275 0.595

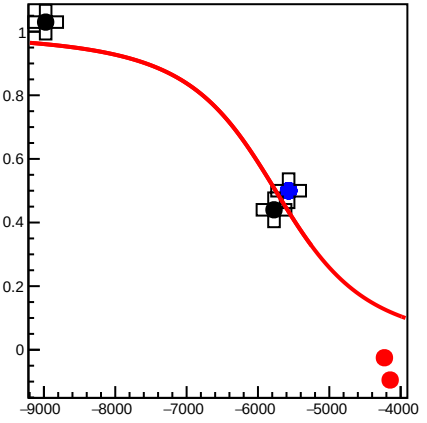
-3576.72 1d3/2 0.15125 1.0425

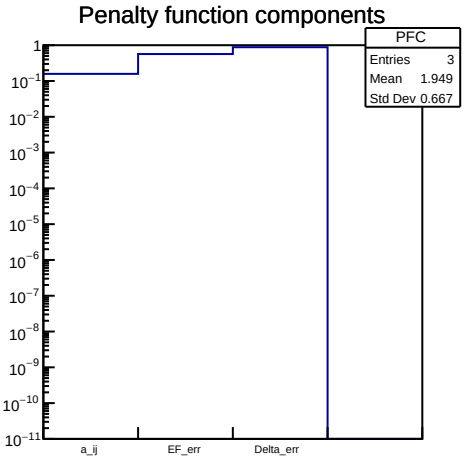
-5570.33 1d5/2 0.5 0.956667

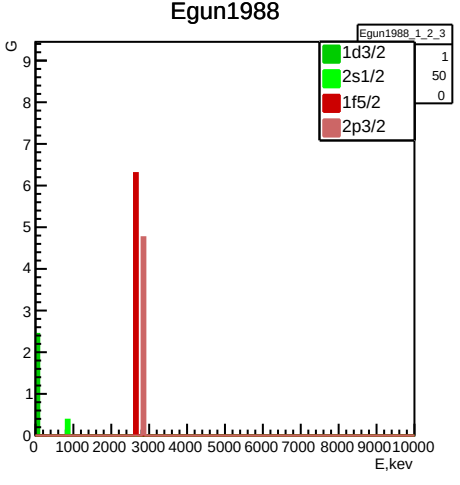
-4394.33 1d5/2 0.465 0.07

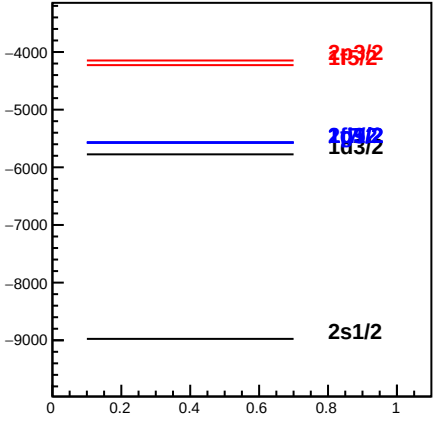
-4279.83 2p3/2 0.225 0.55











Experiment: Mackh74 (13) Egun1988 (4)

proton transfer

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

E_F: -5752.13 ± 236.906 keV

Δ: 1363.47 ± 1118.84 keV

penalty: 0.534525

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

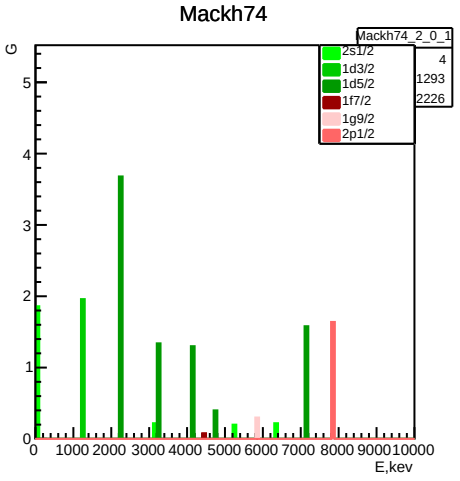
-8975.8 2s1/2 1.03 1.44

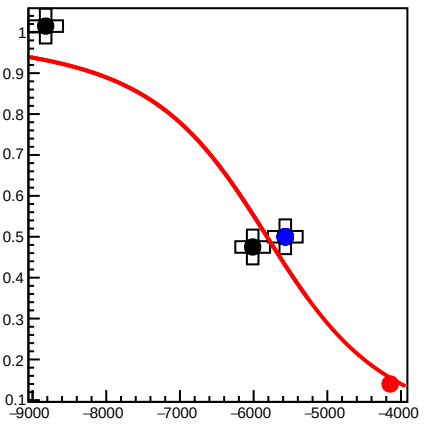
-5775.12 1d3/2 0.44 1.1

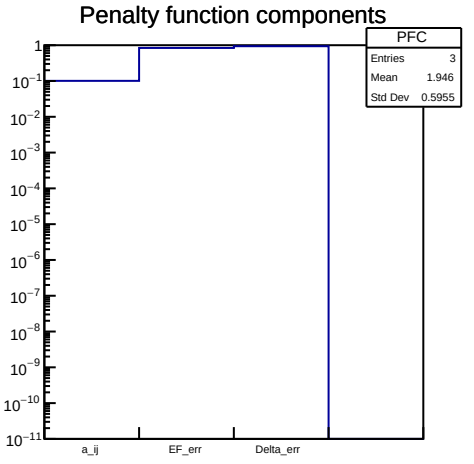
-5570.33 1d5/2 0.5 2.76667

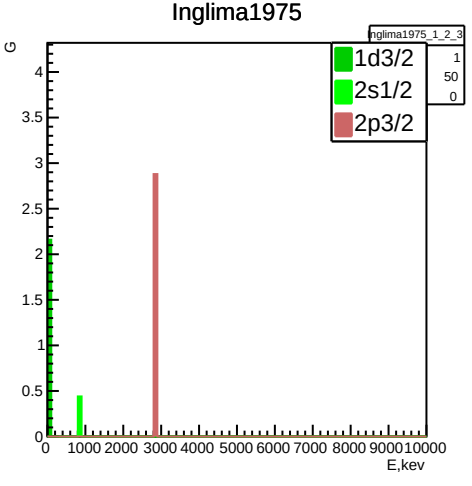
-5570.33 1f7/2 0.5 0.02

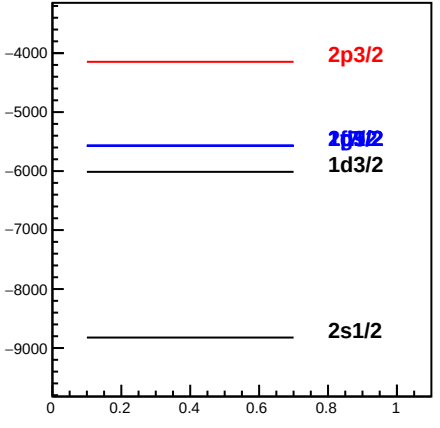
-5570.33 1g9/2 0.5 0.06











Experiment: Mackh74 (13) Inglima1975 (3)

proton transfer

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

E_F: -5818.38 ± 350.799 keV

Δ: 1754.8 ± 1193.95 keV

penalty: 0.625828

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

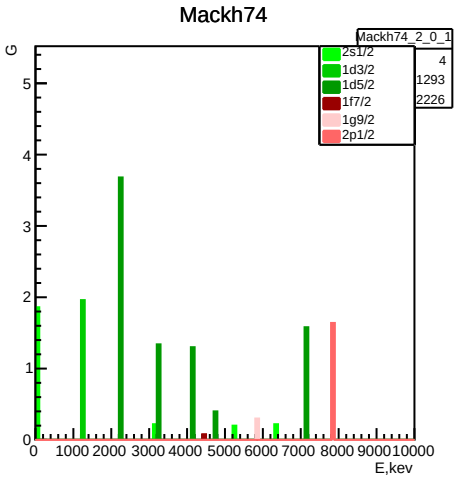
-8822.56 2s1/2 1.015 1.47

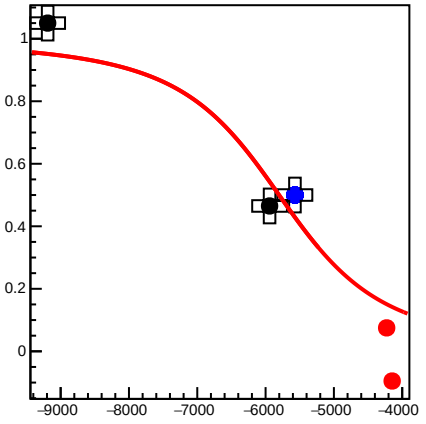
-6012.82 1d3/2 0.475 1.03

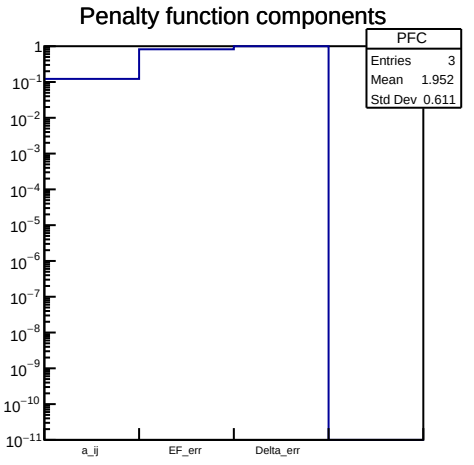
-5570.33 1d5/2 0.5 2.76667

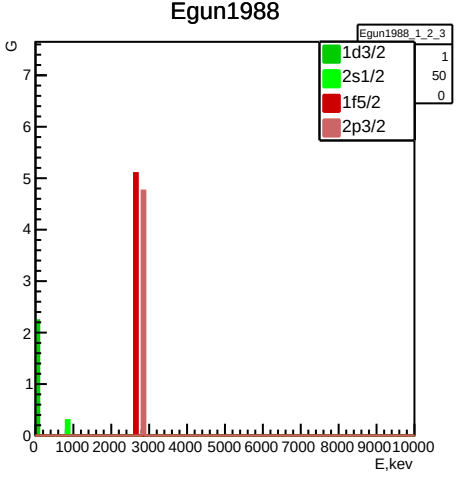
-5570.33 1f7/2 0.5 0.02

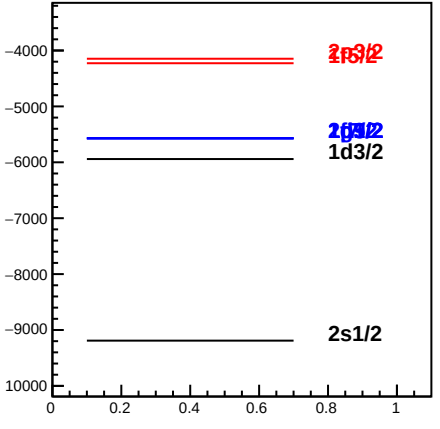
-5570.33 1g9/2 0.5 0.06











Experiment: Mackh74 (13) Egun1988 (4)

proton transfer

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

E_F: -5802.74 ± 343.261 keV

Δ: 1613.65 ± 1273.08 keV

penalty: 0.647583

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

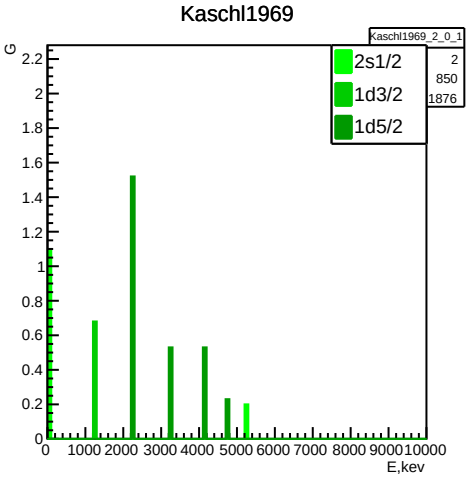
-9190.34 2s1/2 1.05 1.4

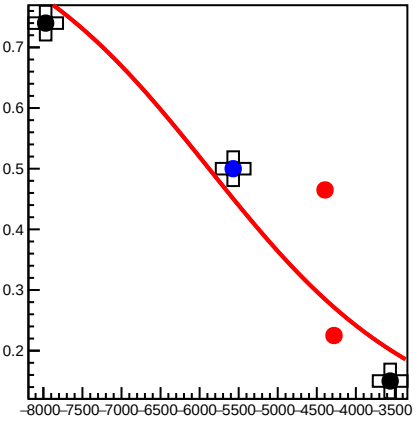
-5941.67 1d3/2 0.465 1.05

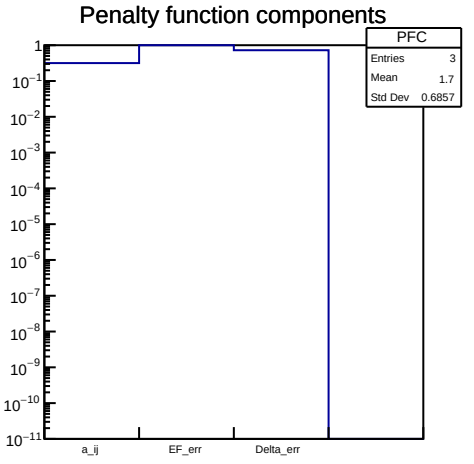
-5570.33 1d5/2 0.5 2.76667

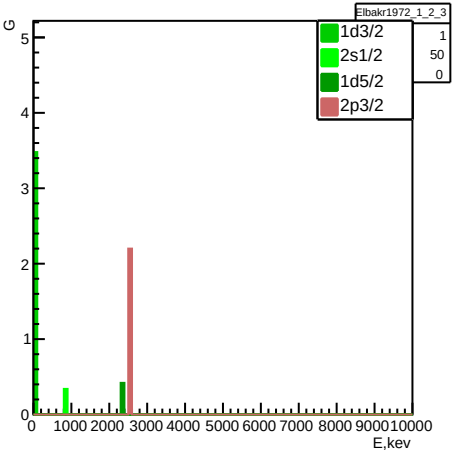
-5570.33 1f7/2 0.5 0.02

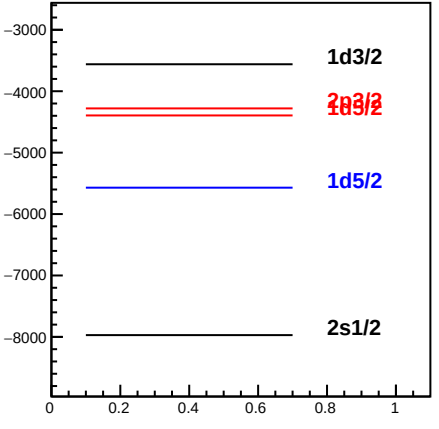
-5570.33 1g9/2 0.5 0.06











Experiment: Kaschl1969 (7) Elbakr1972 (4)

proton transfer

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

E_F: -5879.56 ± 418.271 keV

Δ: 3113.63 ± 922.09 keV

penalty: 0.680323

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

-7970.88 2s1/2 0.74 0.82

-3560.97 1d3/2 0.15 1.04

-5570.33 1d5/2 0.5 0.936667

-4394.33 1d5/2 0.465 0.07

-4279.83 2p3/2 0.225 0.55