RRR information

• Format: RMatrix

• Upper bound: 1036000.0

• Lower bound: 1e-05

• Scattering length (R'): 5.437299999987541 fm

• Lmax: 4

• No. channels: 5

• No. resonances: 737

No URR in this evaluation

Particle pairs

• n + Fe54:

• photon + Fe55:

Channels

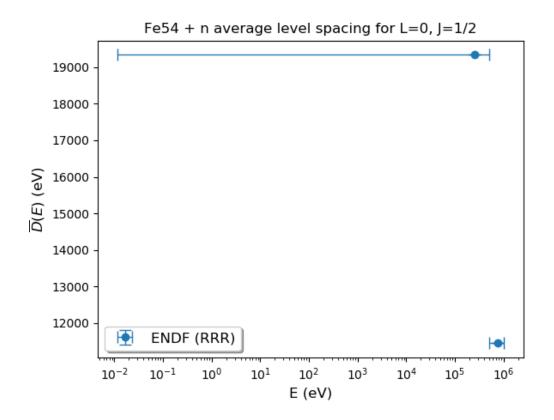
| | No. resonances | No. resonances w/ ER<0 | gfact | Threshold E (eV) | Eliminated? | Competative? | | | (eV) | RRR <gamma> (eV)</gamma> |
|------------------------------------|-------------------|------------------------------|-------|---------------------|-------------|--------------|-------|-------|-----------------------------|---------------------------------|
| photon + Fe55 (j=0.5,l=0,s=0.0) | 324 | 2 | 1.0 | -9472308.63327 | True | False | False | False | | 0.53 +/- 0.39 eV |
| n + Fe54 (j=0.5,l=0,s=0.5) | 148 | 2 | 1.0 | -0.0 | False | False | False | False | 1.4e4 +/- 1.0e4 eV | 6.e3 +/- 1.1e4 eV |
| n + Fe54 (j=0.5,l=1,s=0.5) | 176 | 0 | 1.0 | -0.0 | False | False | False | False | | 1.0e3 +/- 3.3e3 eV |
| photon + Fe55 (j=1.5,l=0,s=0.0) | 370 | 0 | 1.0 | -9472308.63327 | True | False | False | False | | 0.47 +/- 0.14 eV |
| n + Fe54 (j=1.5,l=1,s=0.5) | 196 | 0 | 2.0 | -0.0 | False | False | False | False | | 188. +/- 4.9e2 eV |
| n + Fe54 (j=1.5,l=2,s=0.5) | 174 | 0 | 2.0 | -0.0 | False | False | False | False | | 177. +/- 4.5e2 eV |

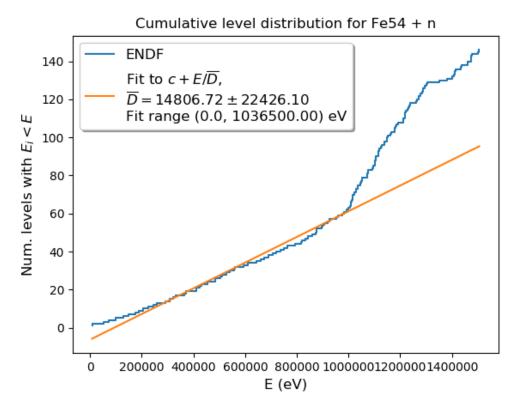
| | | | | | | | | 1.1e4 eV |
|---------------------------------------|---|-----|---------------|--------|-------|-------|-------|--|
| photon + Fe55 (j=2.5,l=0,s=0.0) 43 | 0 | 1.0 | -9472308.6332 | 7 True | False | False | False | 2.1e4 +/- 0.46 +/- 5.6e4 0.17 eV eV |
| n + Fe54 (j=2.5,l=2,s=0.5) 43 | 0 | 3.0 | -0.0 | False | False | False | False | 2.1e4 +/- 140. +/- 5.6e4 3.2e2 eV |

Spin Group L=0, J=1/2

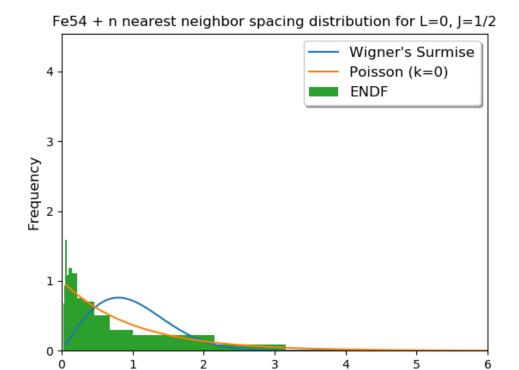
Level analysis

Secular variation of levels

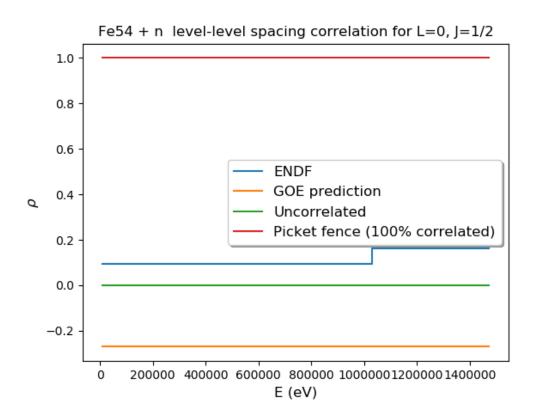


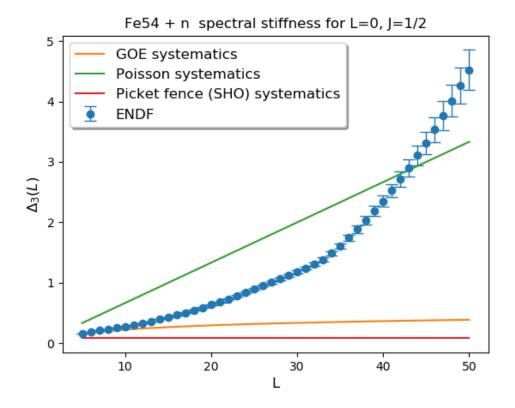


Local fluctuations in levels

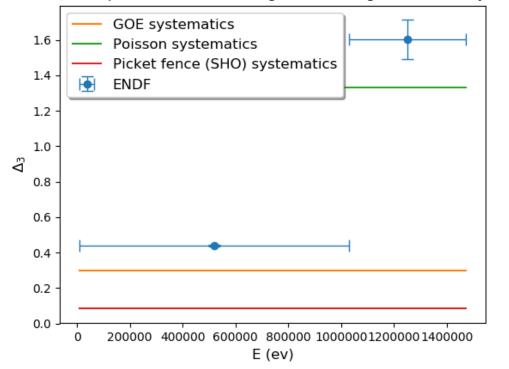


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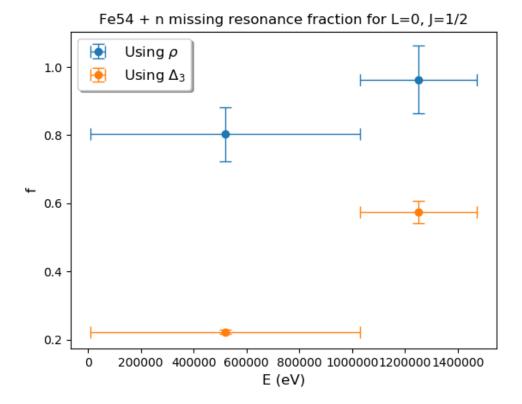




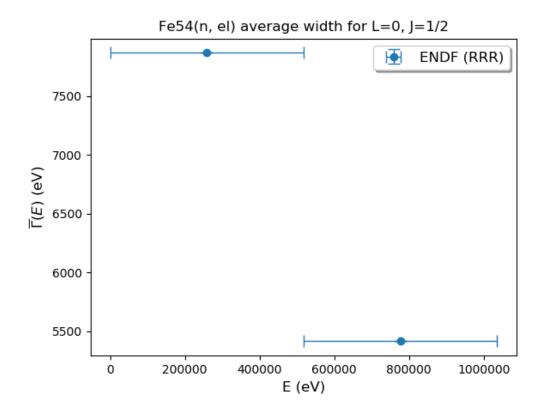
Fe54 + n spectral stiffness for segments of length 20 for L=0, J=1/2

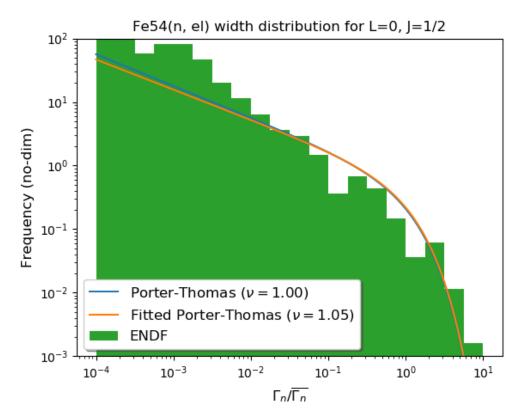


Assessment of fraction of missing levels



Details for channel n + Fe54 (j=0.5,l=0,s=0.5)

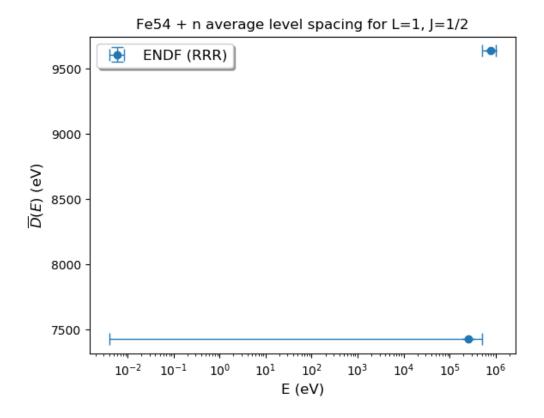


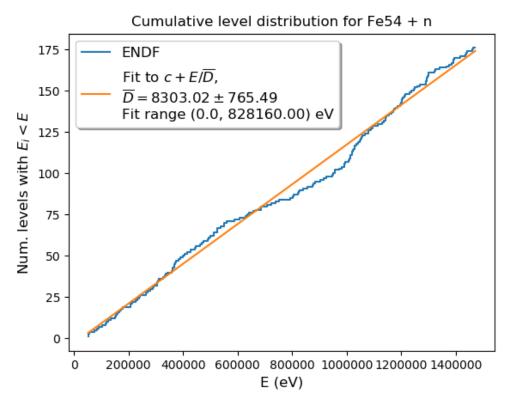


Spin Group L=1, J=1/2

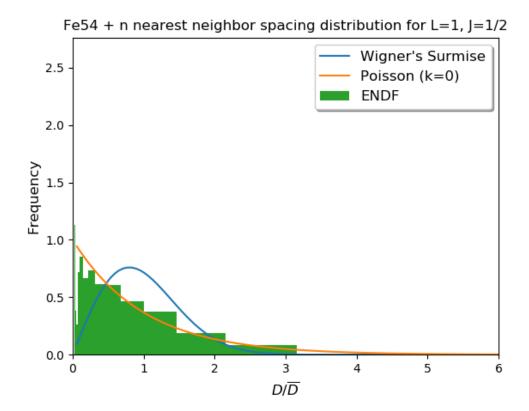
Level analysis

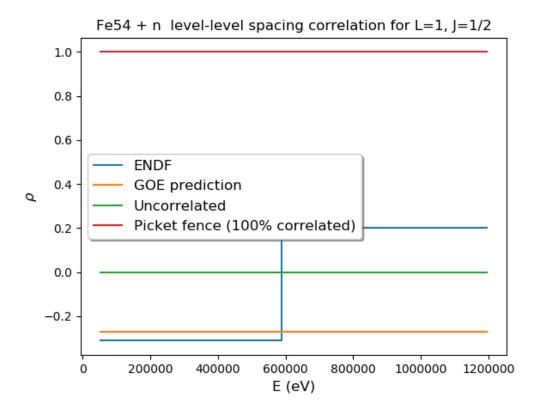
Secular variation of levels

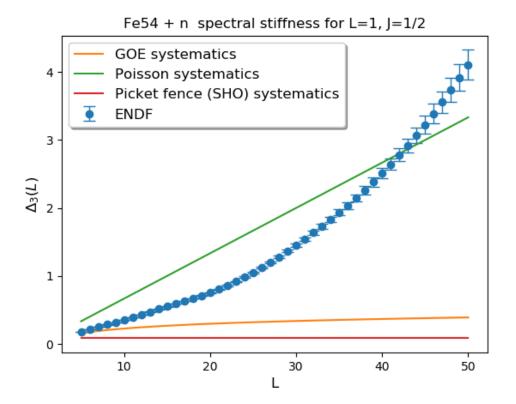




Local fluctuations in levels

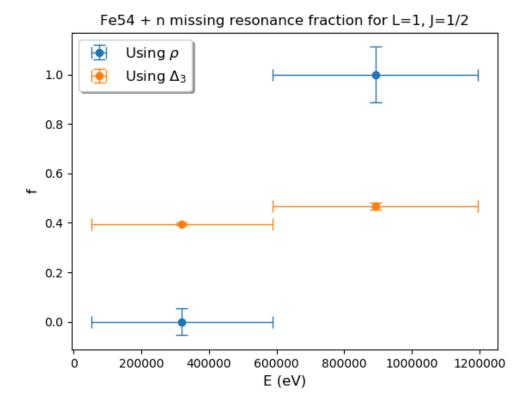




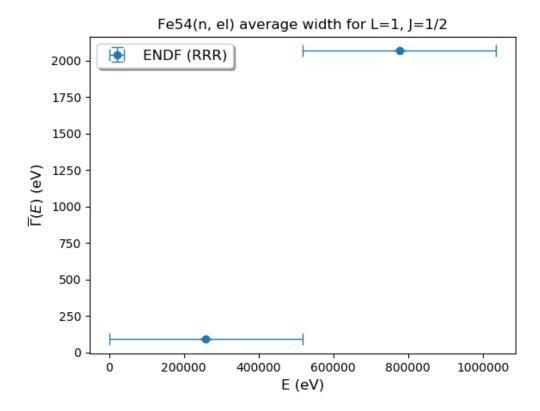


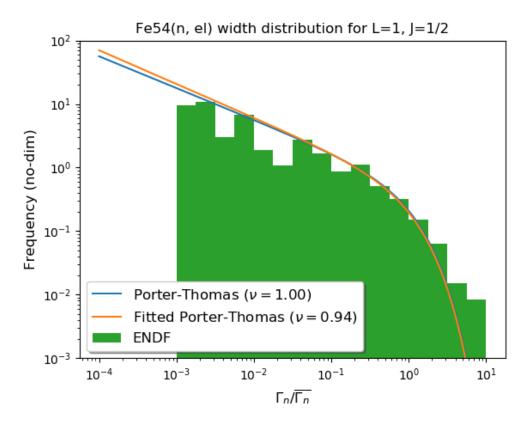
Fe54 + n spectral stiffness for segments of length 20 for L=1, J=1/2**GOE** systematics Poisson systematics 1.2 Picket fence (SHO) systematics **ENDF** 1.0 0.8 Δ3 0.6 0.4 0.2 200000 400000 600000 800000 1000000 1200000 E (ev)

Assessment of fraction of missing levels



Details for channel n + Fe54 (j=0.5,l=1,s=0.5)

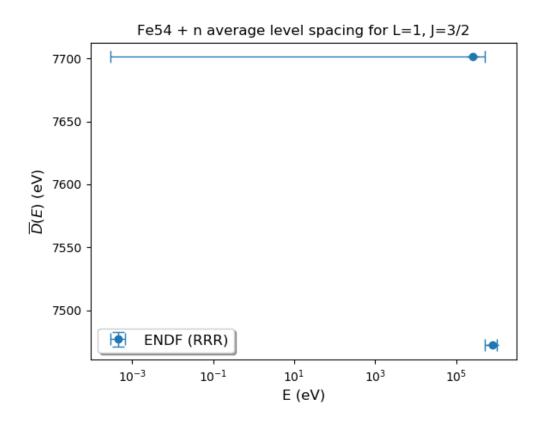


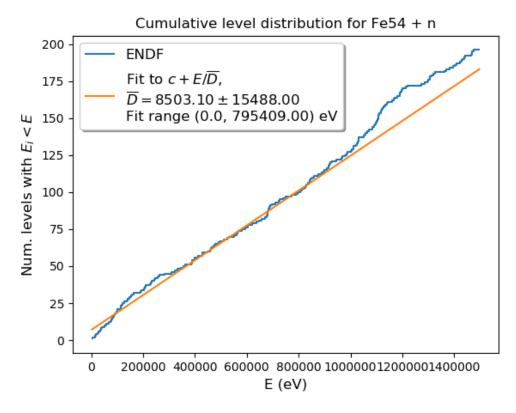


Spin Group L=1, J=3/2

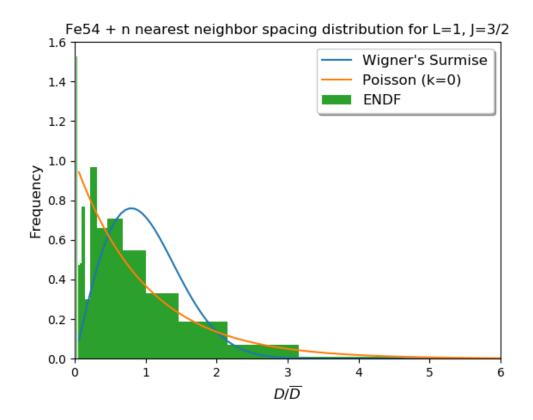
Level analysis

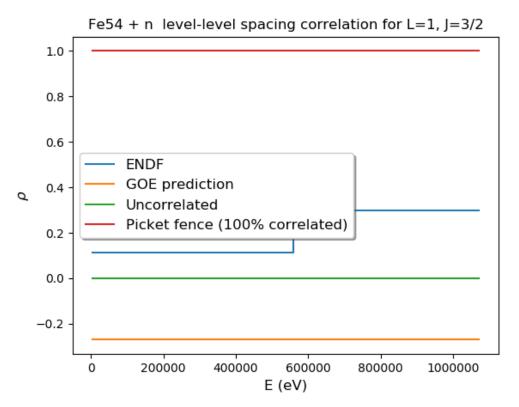
Secular variation of levels

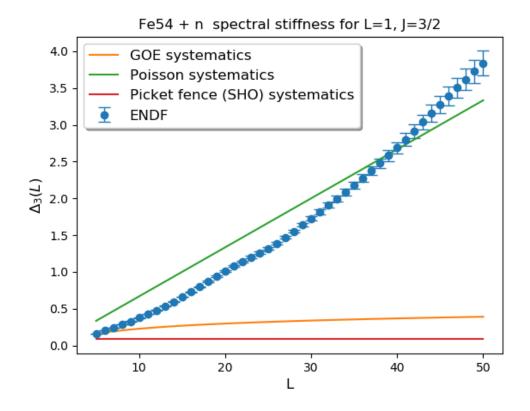


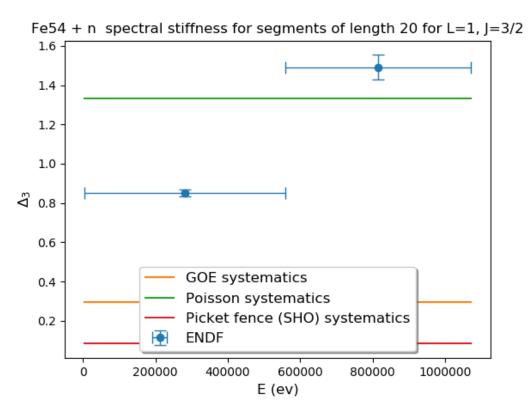


Local fluctuations in levels

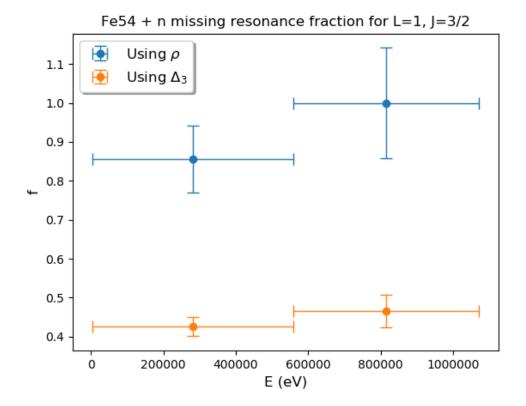




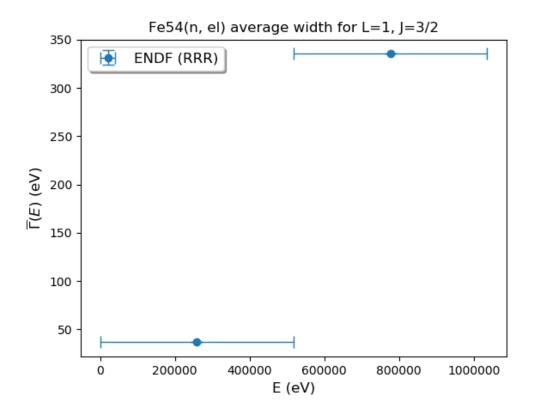


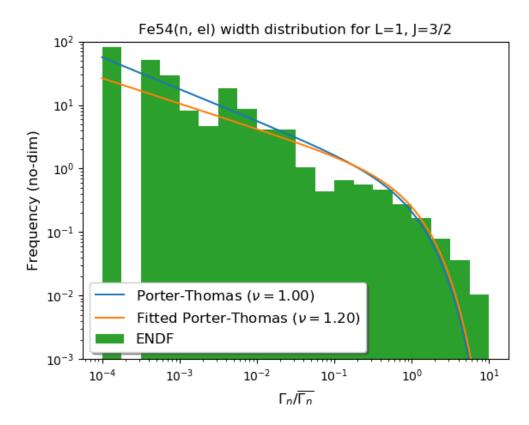


Assessment of fraction of missing levels



Details for channel n + Fe54 (j=1.5,l=1,s=0.5)

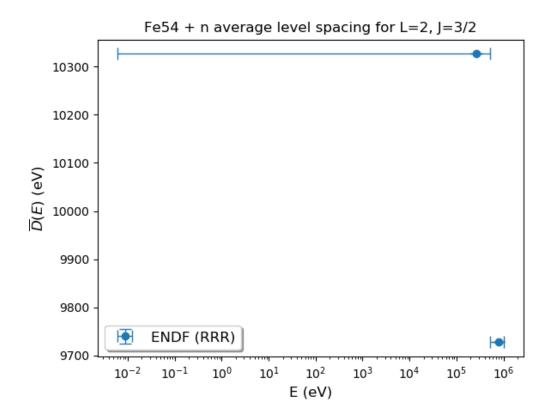


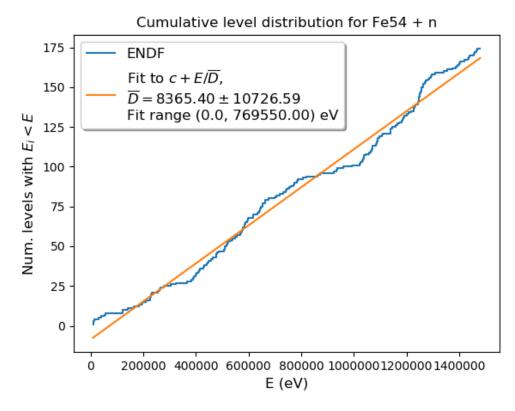


Spin Group L=2, J=3/2

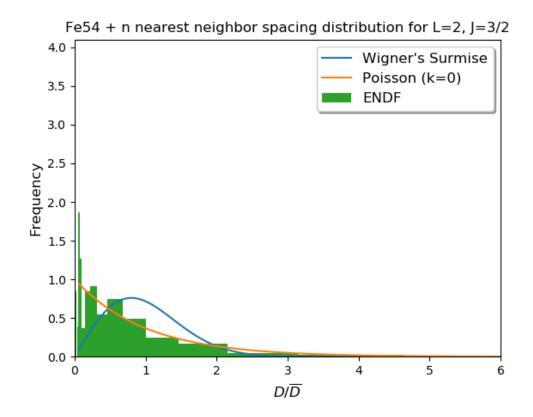
Level analysis

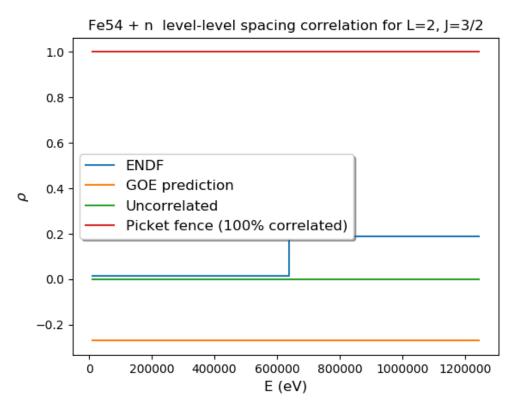
Secular variation of levels

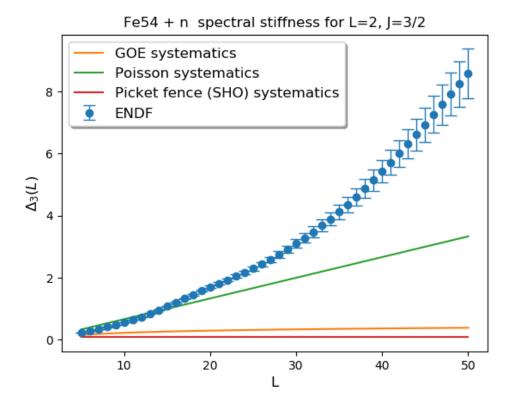


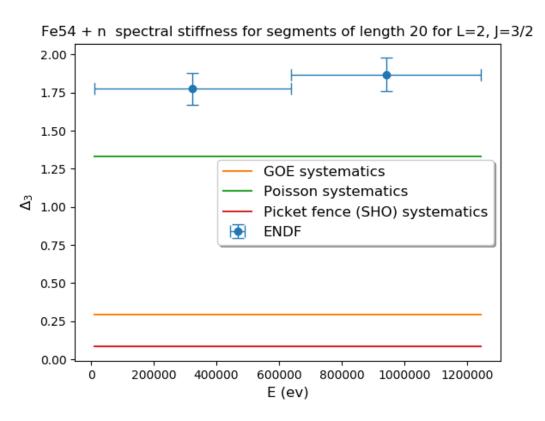


Local fluctuations in levels

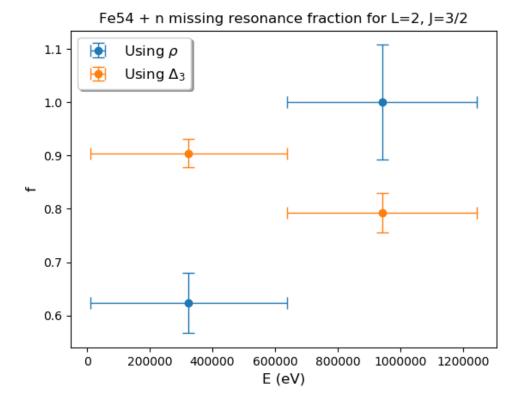




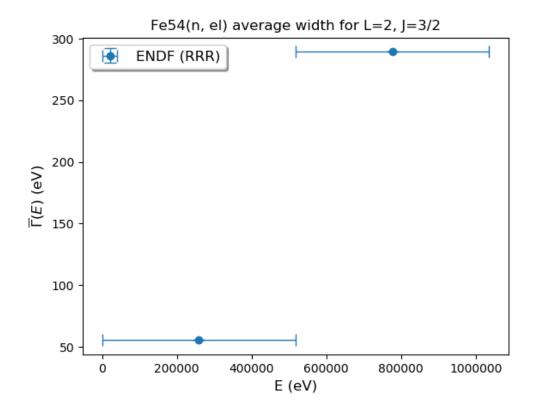


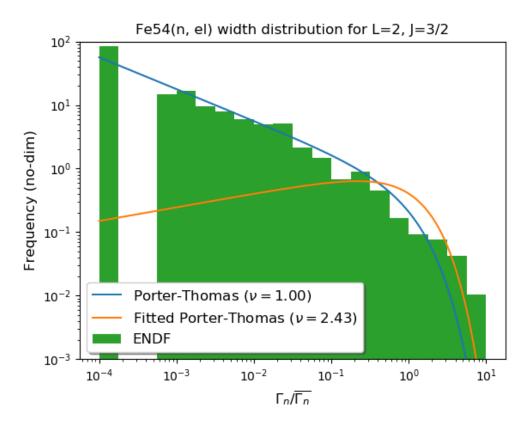


Assessment of fraction of missing levels



Details for channel n + Fe54 (j=1.5,l=2,s=0.5)

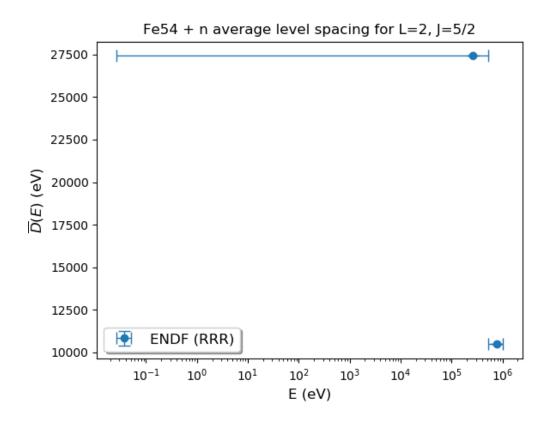


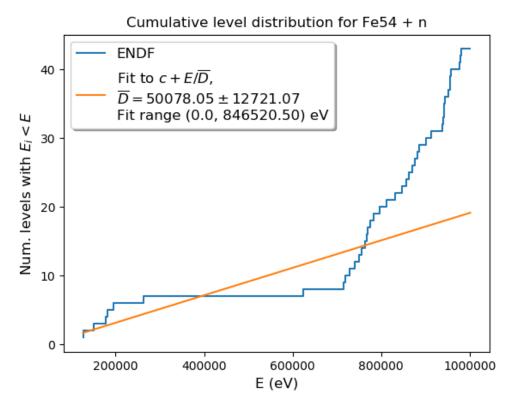


Spin Group L=2, J=5/2

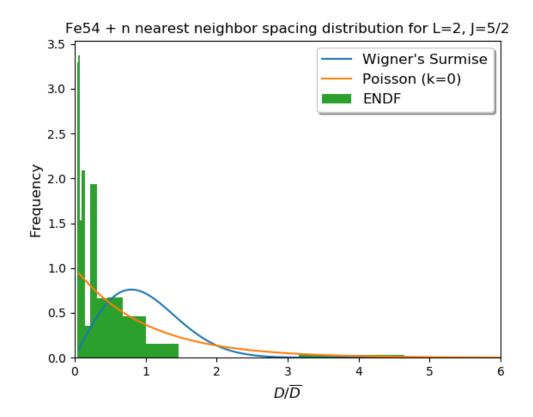
Level analysis

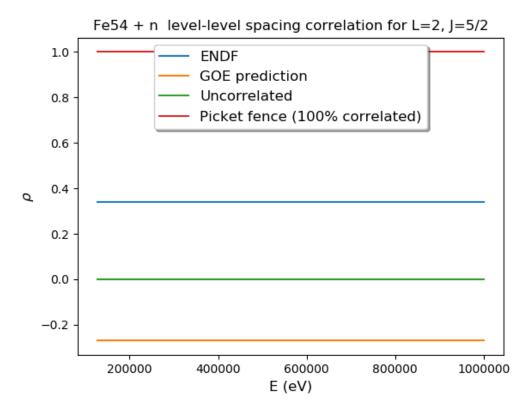
Secular variation of levels

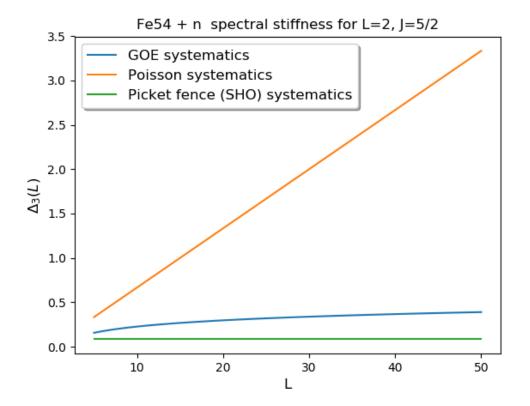




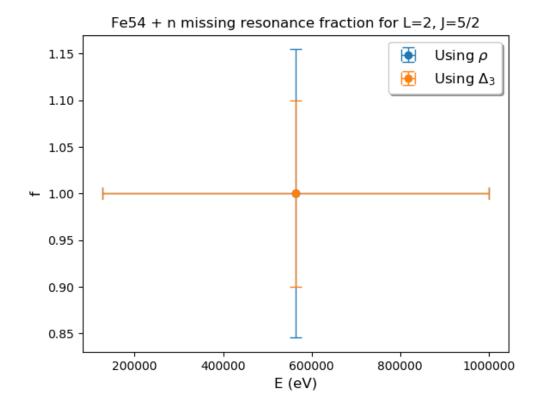
Local fluctuations in levels







Assessment of fraction of missing levels



Details for channel n + Fe54 (j=2.5,l=2,s=0.5)

