^{163}Lu - new formalism for TSD4

The preliminary results of the fit for the excitation energies.
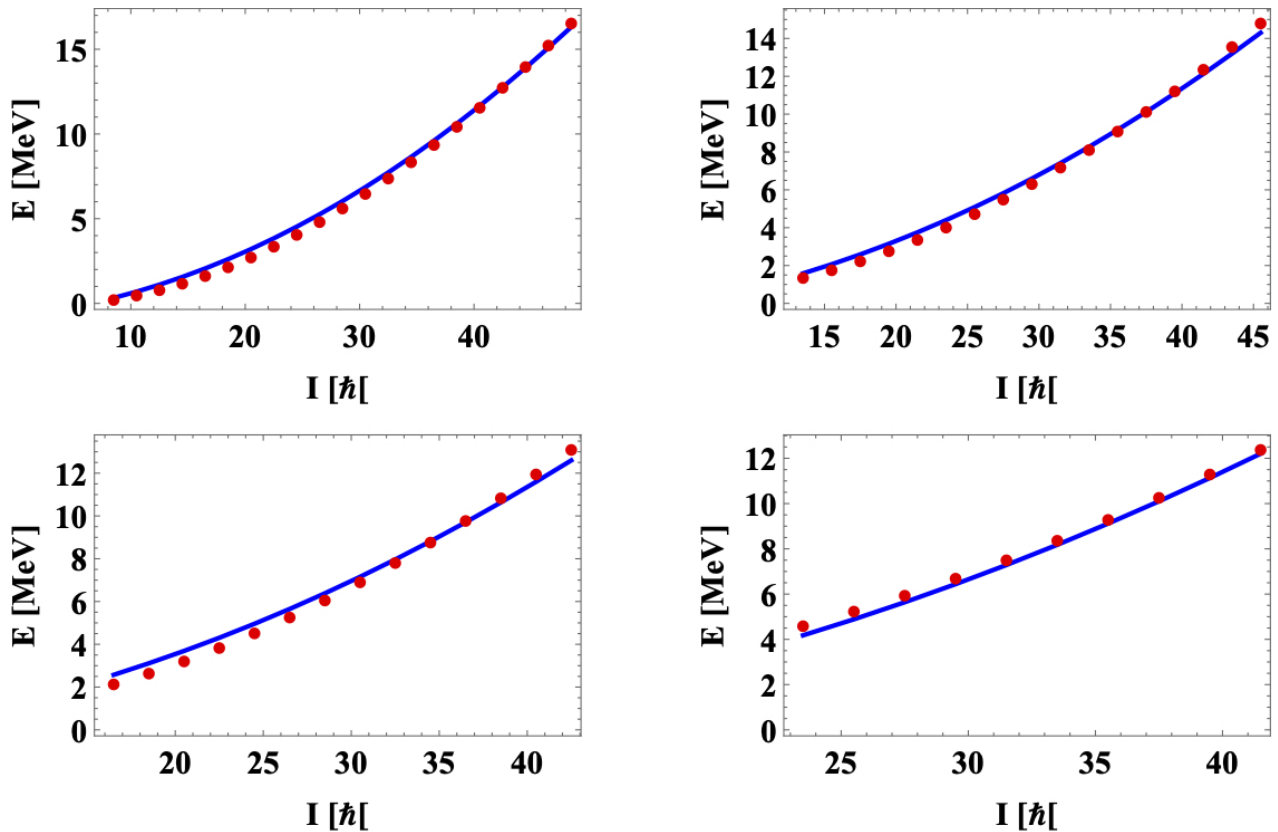
Method 1

- TSD1: $(0, 0)$, TSD2: $(1, 0)$, TSD3: $(2, 0)$, TSD4: $(0, 0)$
- $j = 13/2$

```
TSD4:  (0,0)
Initializing rms class...
Starting to search for the minimum RMS...
I1= 83.5
I2= 93.5
I3= 2
V= 9.1
gm= 21
E_RMS= 0.323061
Finished computations. Process took: 696.262 s
```
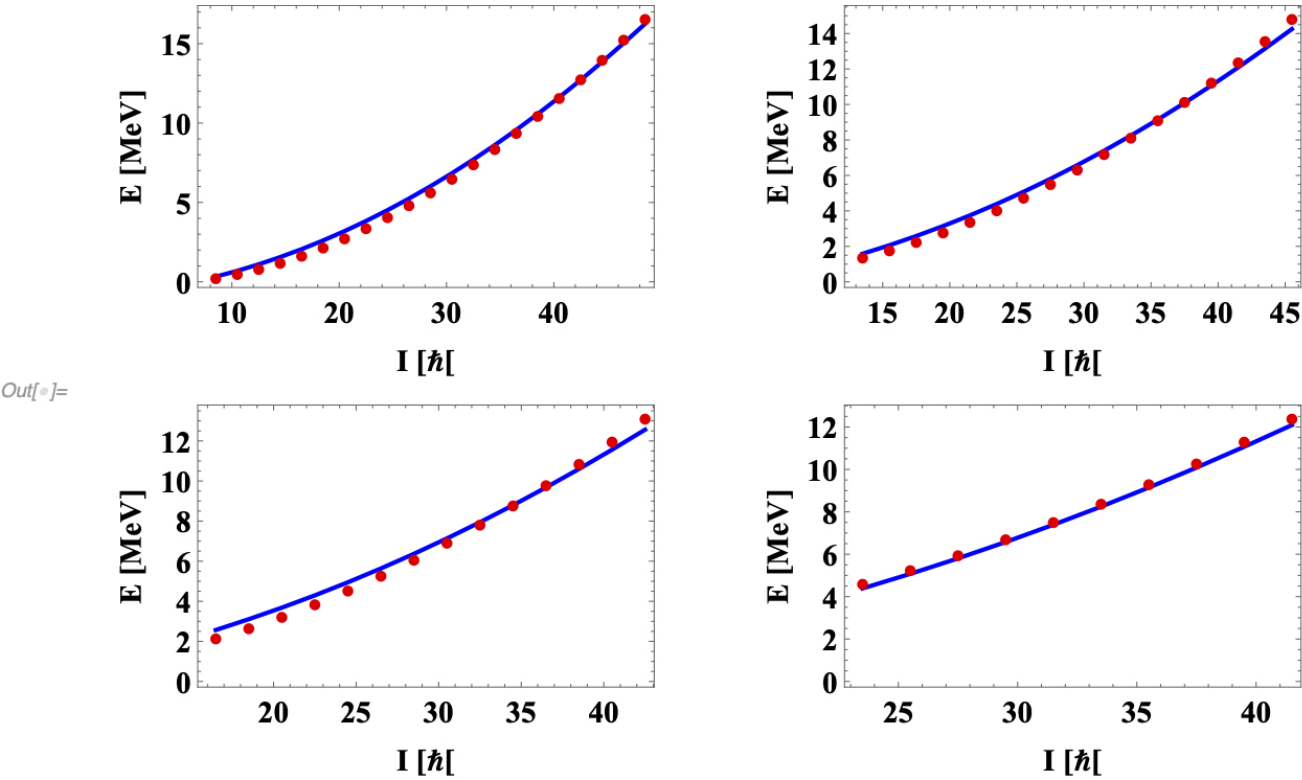
Plot-0

Method 2

- TSD1: $(0, 0)$, TSD2: $(1, 0)$, TSD3: $(2, 0)$, TSD4: $(1, 0)$
- $j = 13/2$

```
TSD4:  (1,0)
Initializing rms class...
Starting to search for the minimum RMS...
I1= 84
```

```
I2= 94
I3= 2
V= 9.1
gm= 21
E_RMS= 0.313302
Finished computations. Process took: 567.621 s
```

Plot-1

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