

# $^{163}\text{Lu}$ - new formalism for TSD4

The preliminary results of the fit for the excitation energies.

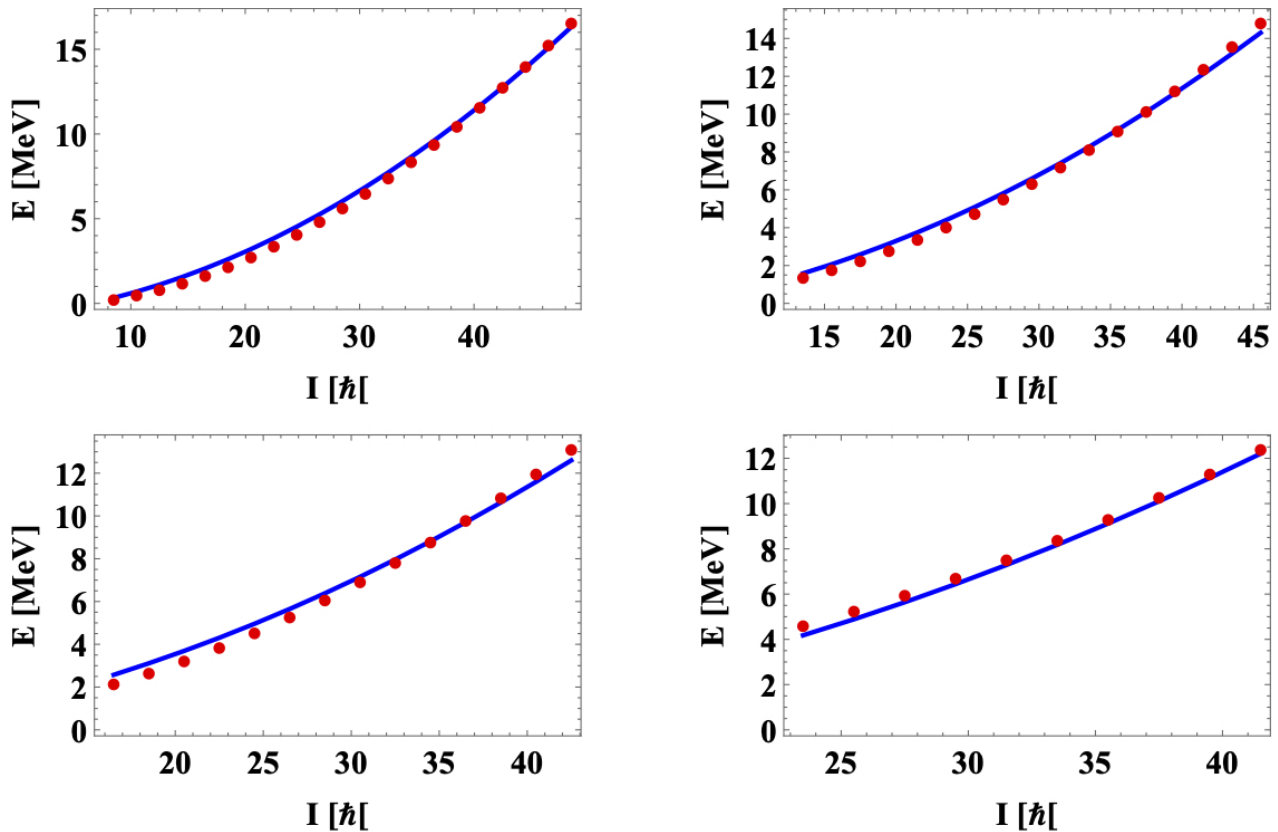
## Method 1

- 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

Out[\*]=

