

Group Meeting

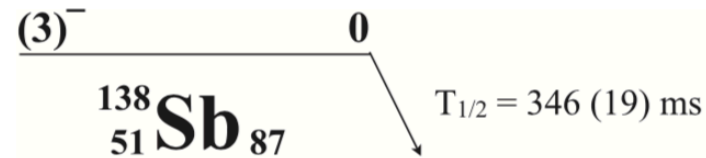
28th. June. 2018

Byul Moon

Progress

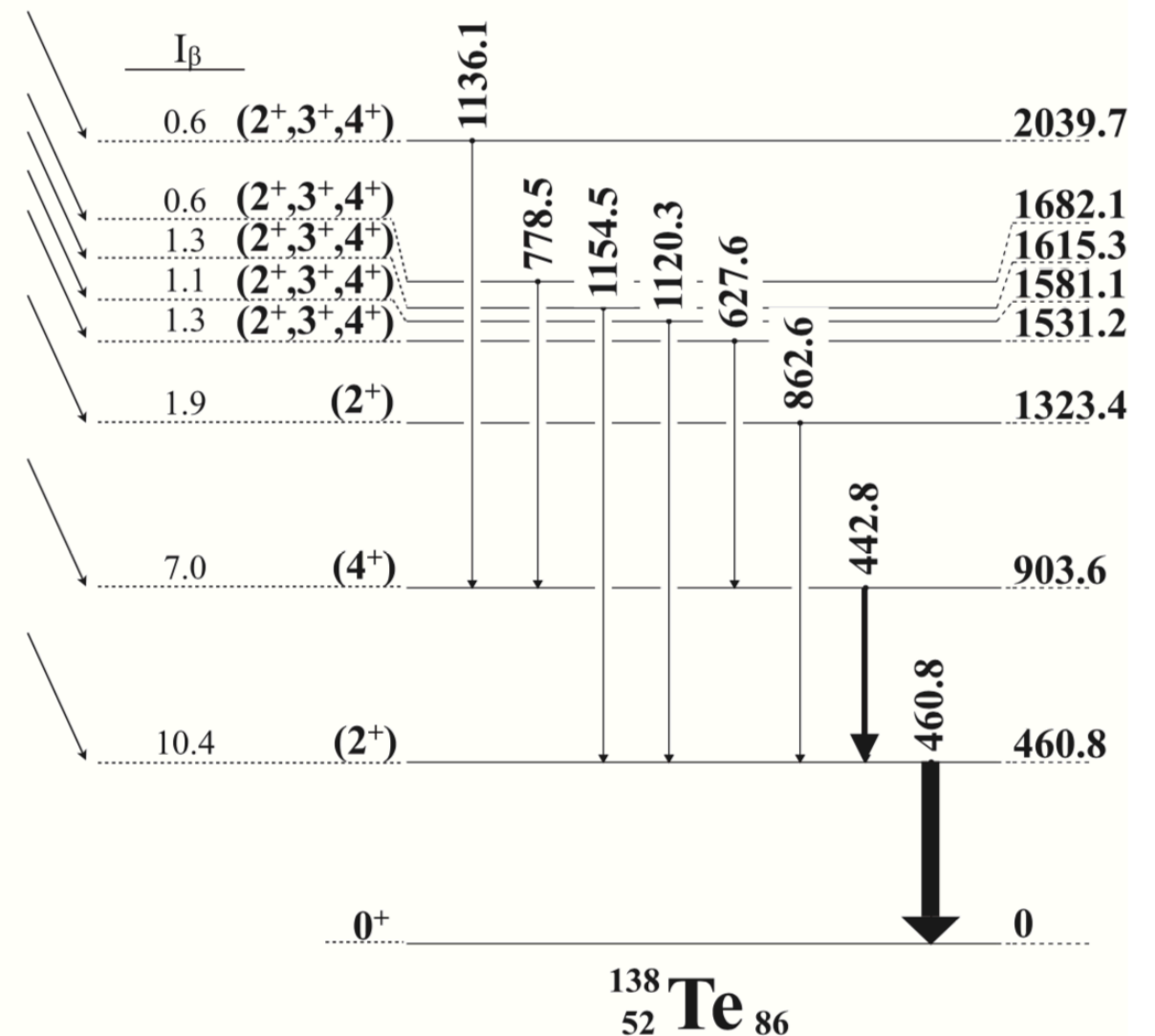
1. EURICA data analysis and sorting has been finished.
2. Nuclear structures of ^{138}Te , ^{140}Te , ^{138}I , and ^{142}I are being analyzed.
3. New theorist has joined to our collaboration.
: Dr. Nobuo Hinohara, Tsukuba University,
QRPA calculations.

^{138}Te Structure

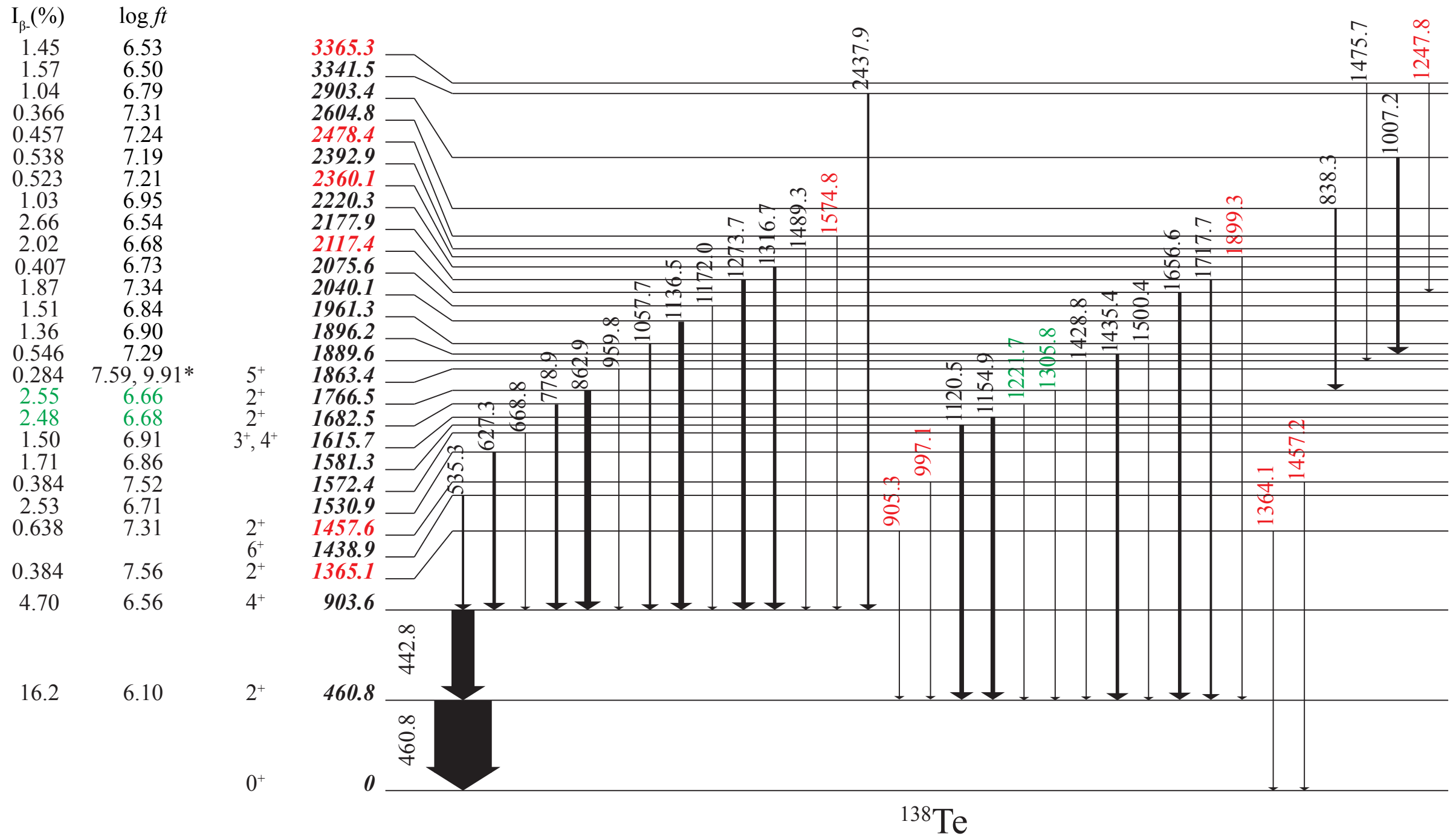


PHYSICAL REVIEW C **92**, 044320 (2015)

1. Previous result by P. Lee with same data set.
2. More transitions are assigned.
3. Half-life changed.
4. Find new physics.
e.g. shape evolution in Te isotopes, neutron dominant effect, etc.
5. Looking for any theorist to collaborate with us for QRPA calculations.

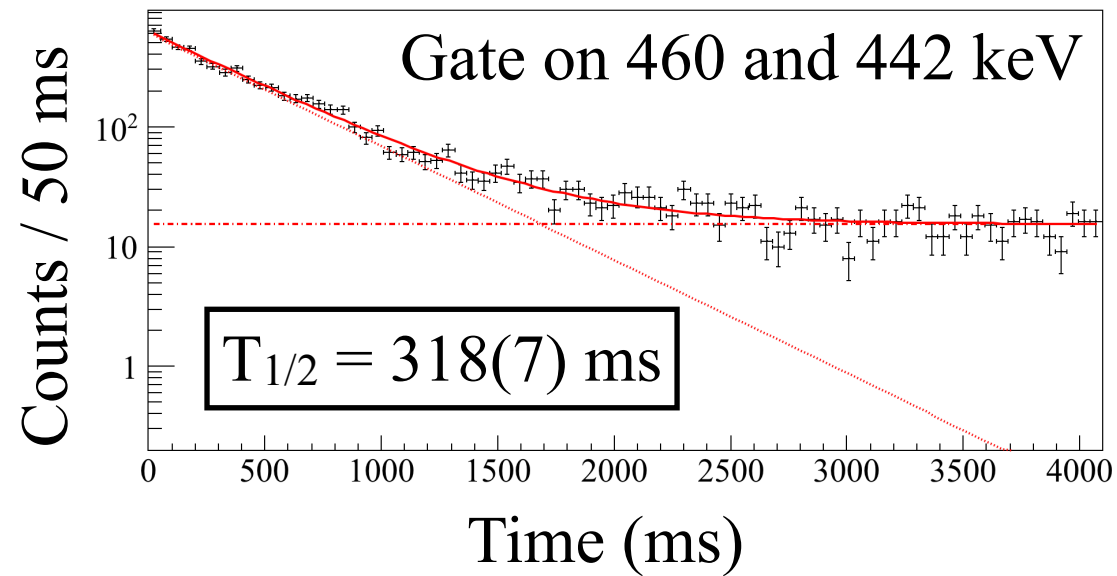


^{138}Te Structure

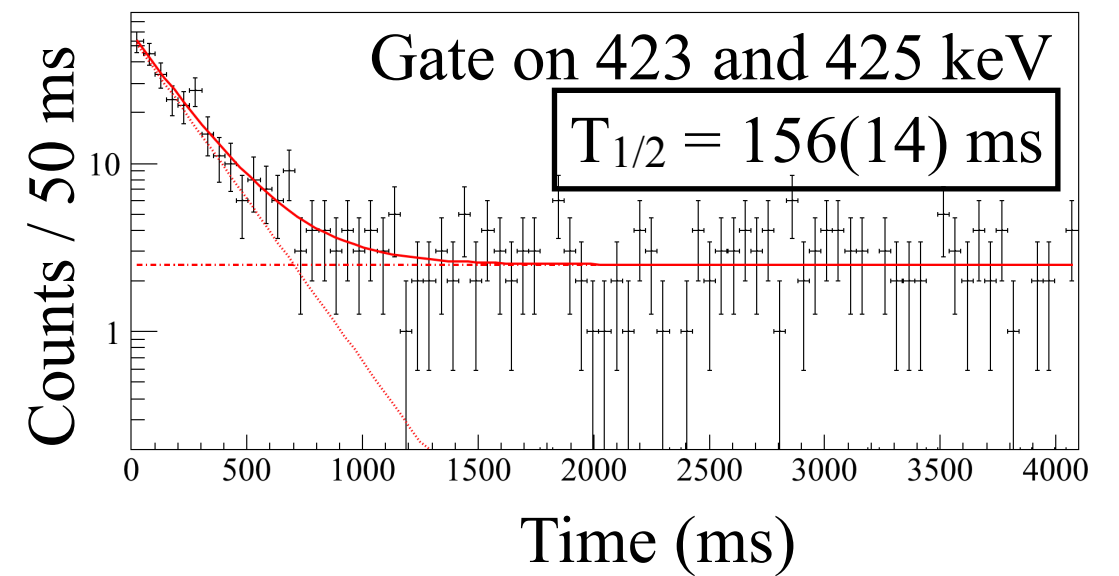


Half-life Measurements

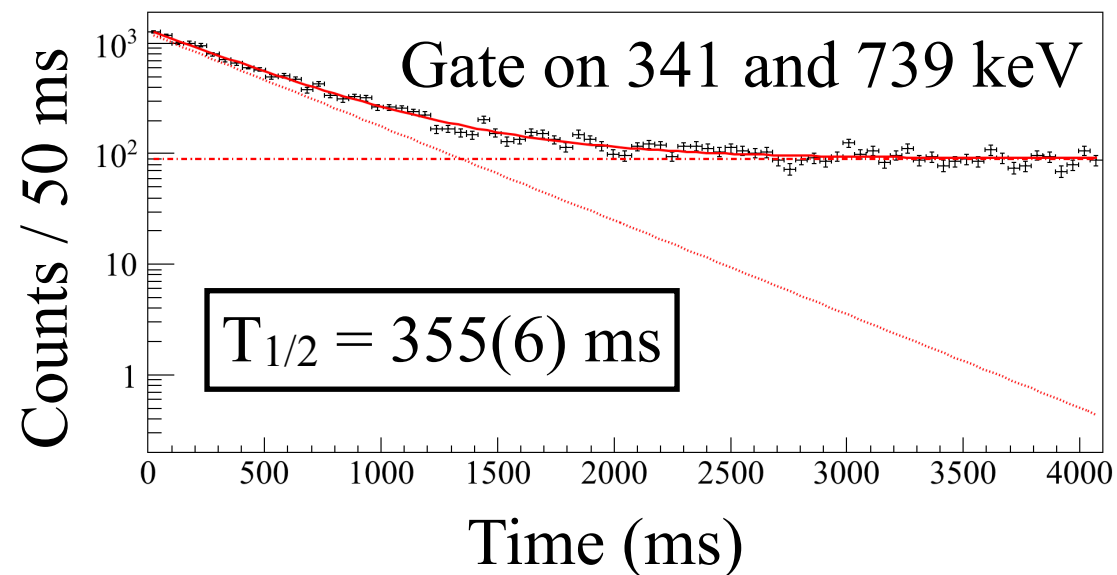
^{138}Sb



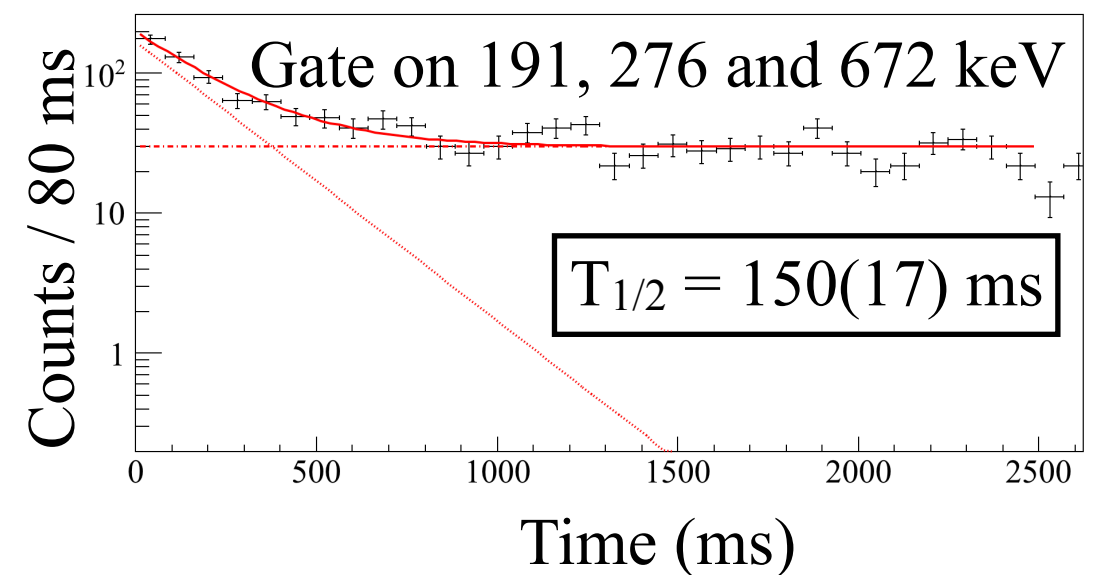
^{140}Sb



^{140}Te



^{142}Te



Future Plan

1. Finish reconstructing level schemes for ^{138}Te , ^{138}I , and ^{142}I .
2. Request theoretical calculations.
Shell model & QRPA calculations.