Figure 1

Discrepancy (Exp. − Calc.)

Experimental

Calculated

FRDM (1992)

$\sigma_{th} = 0.669$ MeV

Neutron Number $N$

Microscopic Energy (MeV)
Figure 2

Discrepancy (Exp. − Calc.)

Experimental

Calculated

FRLDM (1992)

$\sigma_{th} = 0.779 \text{ MeV}$

Neutron Number $N$

Microscopic Energy (MeV)
Figure 3

Theoretical Error $\sigma_{th}$ (MeV)

$K = 451$ MeV

$K = 243$ MeV

- FRDM (1992)
- $N \geq 65$
- No exponential term
$\sigma_{351} = 0.686$ MeV

$\sigma_{th} = 0.671$ MeV

$\sigma_{351} = 0.686$ MeV

Figure 4
Figure 5

Model Error for New Masses (MeV)

- Mean error $\mu_{th}$
- $\mu_{th} \pm$ standard deviation $\sigma_{th}$
- $\sigma_{th}$ for original nuclei

FRLDM (1981)

FRDM (1992)

Neutrons from $\beta$-stability

Figure 5
Figure 6

FRDM (1992) $\sigma_{th} = 0.669$ MeV

FRDM (Restricted adjustment) $\sigma_{th} = 0.745$ MeV

$M_{exp} - M_{th}$ (MeV) vs. Neutron Number $N$
Figure 7

FRDM (1992)

Theoretical Error $\sigma_{th}(A)$ (MeV)

Mass Number $A$
Figure 8

Discrepancy (Exp. − Calc.)

Fission-Barrier Height (MeV)

Experimental

FRDM (1992)

Calculated

Neutron Number $N$