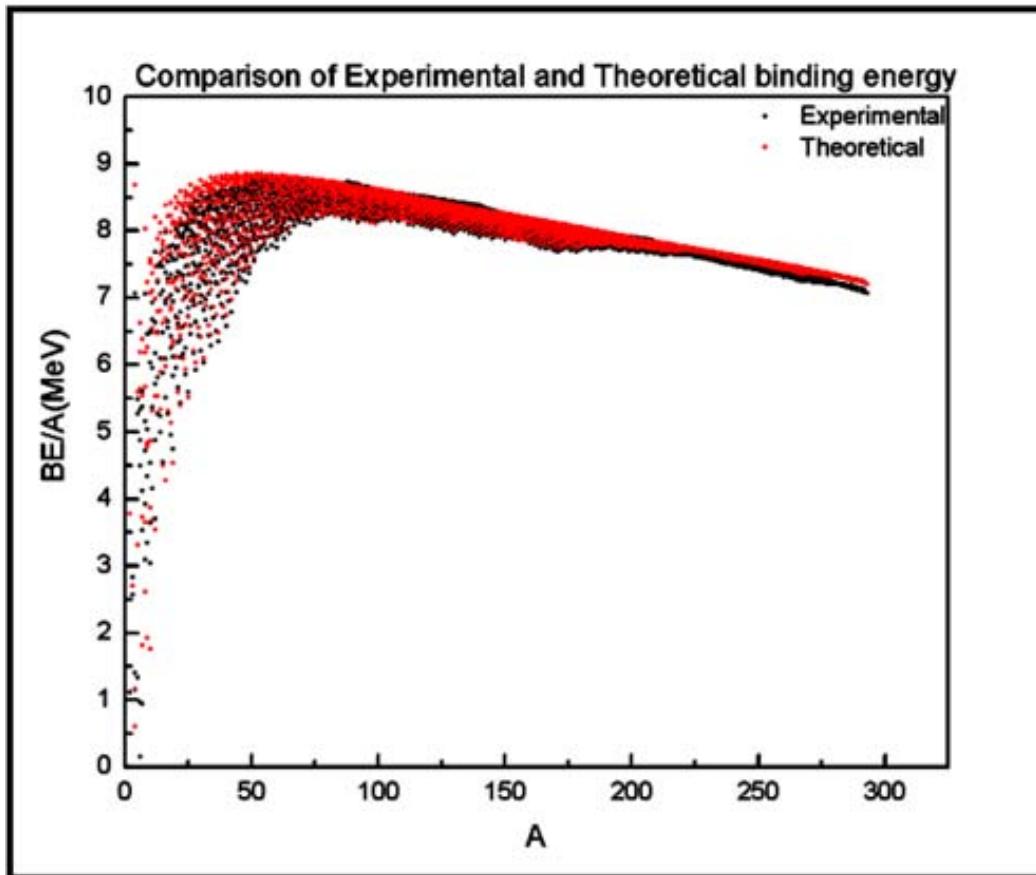

Slides for Nuclear Mass and Stability

22.01 – Intro to Radiation

September 21 & 23, 2015

Binding Energy Curve

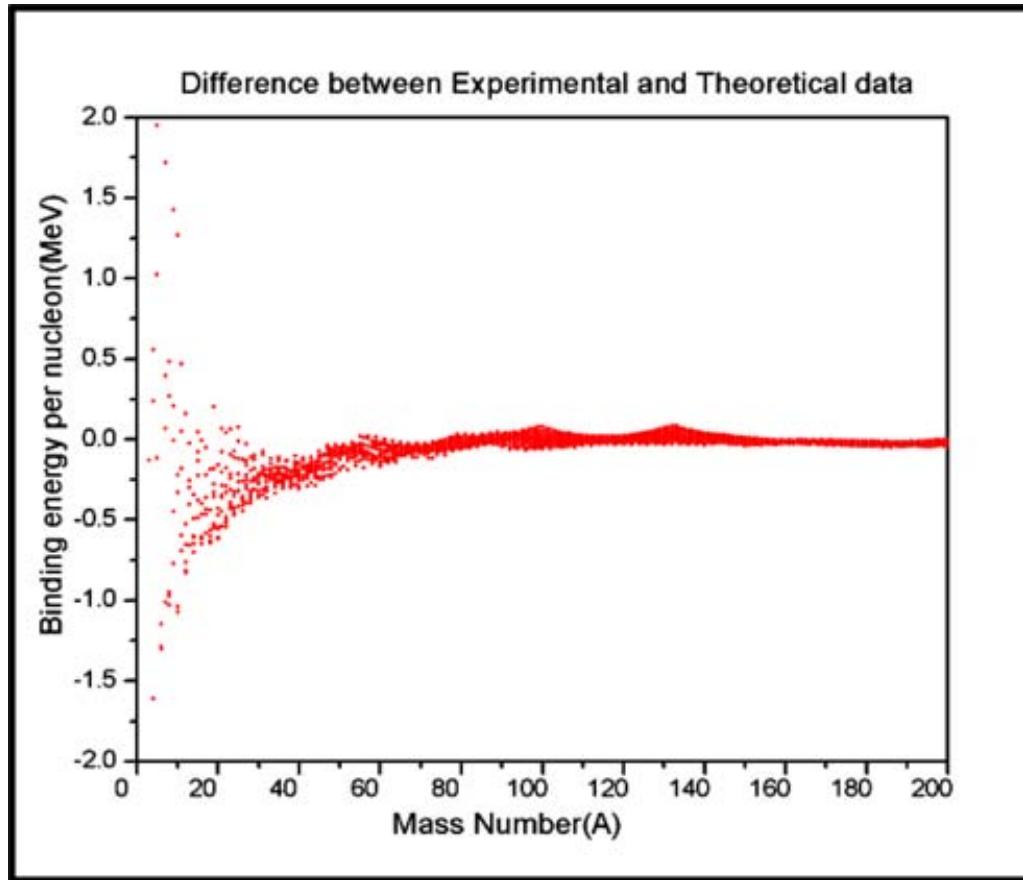
http://ictwiki.iitk.ernet.in/wiki/index.php/The_LDM_and_Semi-empirical_Mass_formula



© Monika Patial & Dr. A.K. Jain. License CC BY-NC-ND. This content is excluded from our Creative Commons license. For more information, see <http://ocw.mit.edu/help/faq-fair-use/>.

Binding Energy Curve

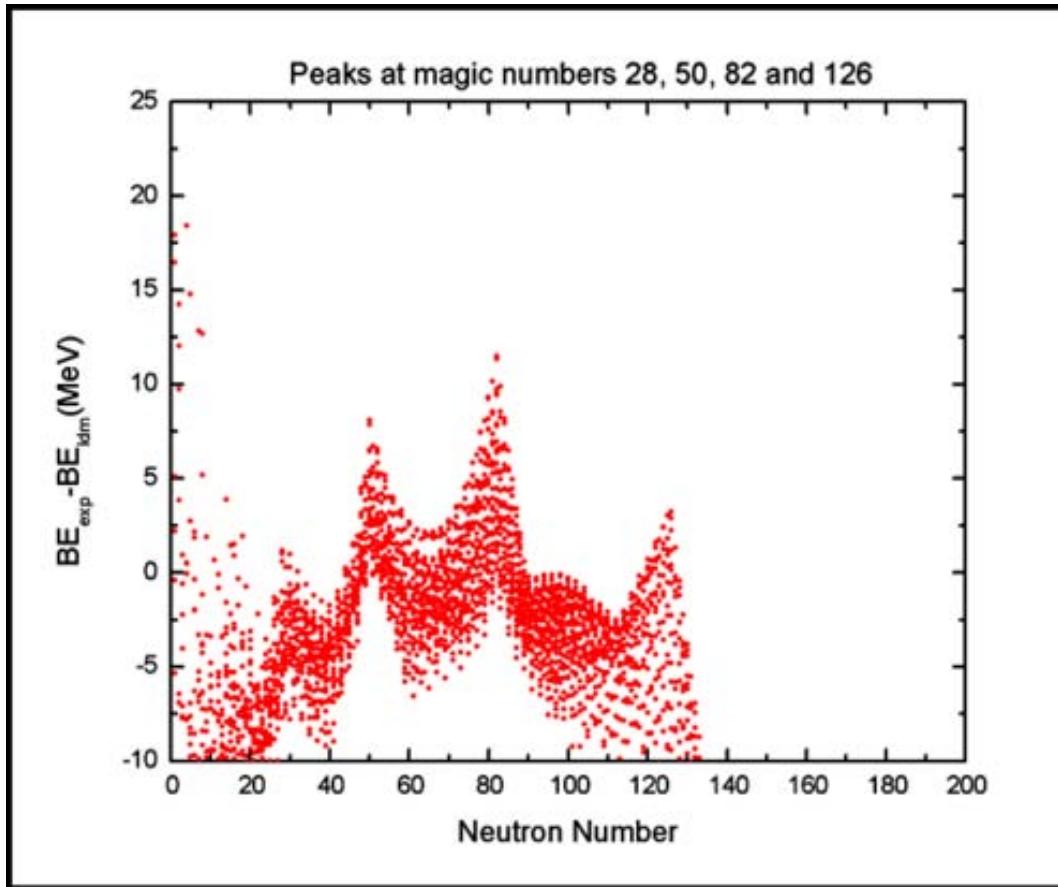
http://ictwiki.iitk.ernet.in/wiki/index.php/The_LDM_and_Semi-empirical_Mass_formula



© Monika Patial & Dr. A.K. Jain. License CC BY-NC-ND. This content is excluded from our Creative Commons license. For more information, see <http://ocw.mit.edu/help/faq-fair-use/>.

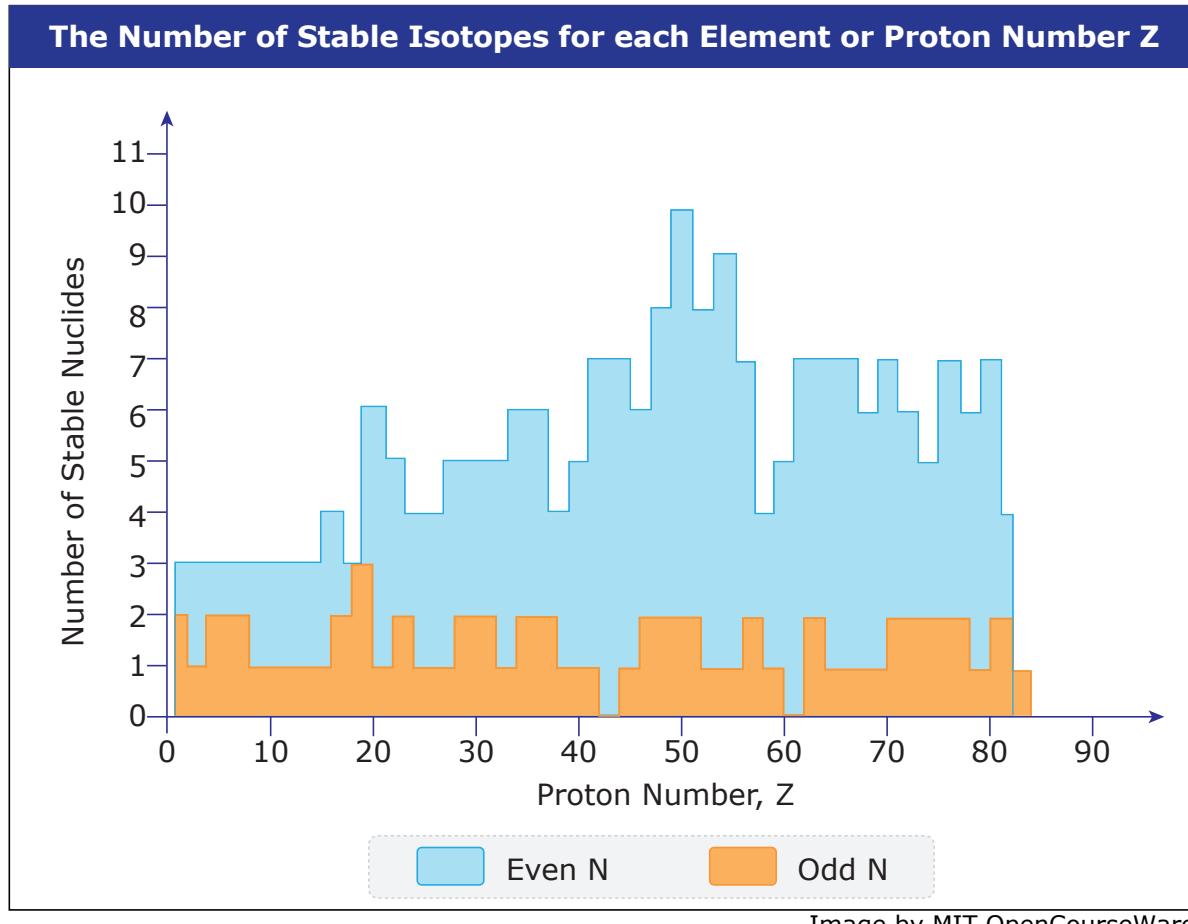
Binding Energy Curve

http://ictwiki.iitk.ernet.in/wiki/index.php/The_LDM_and_Semi-empirical_Mass_formula

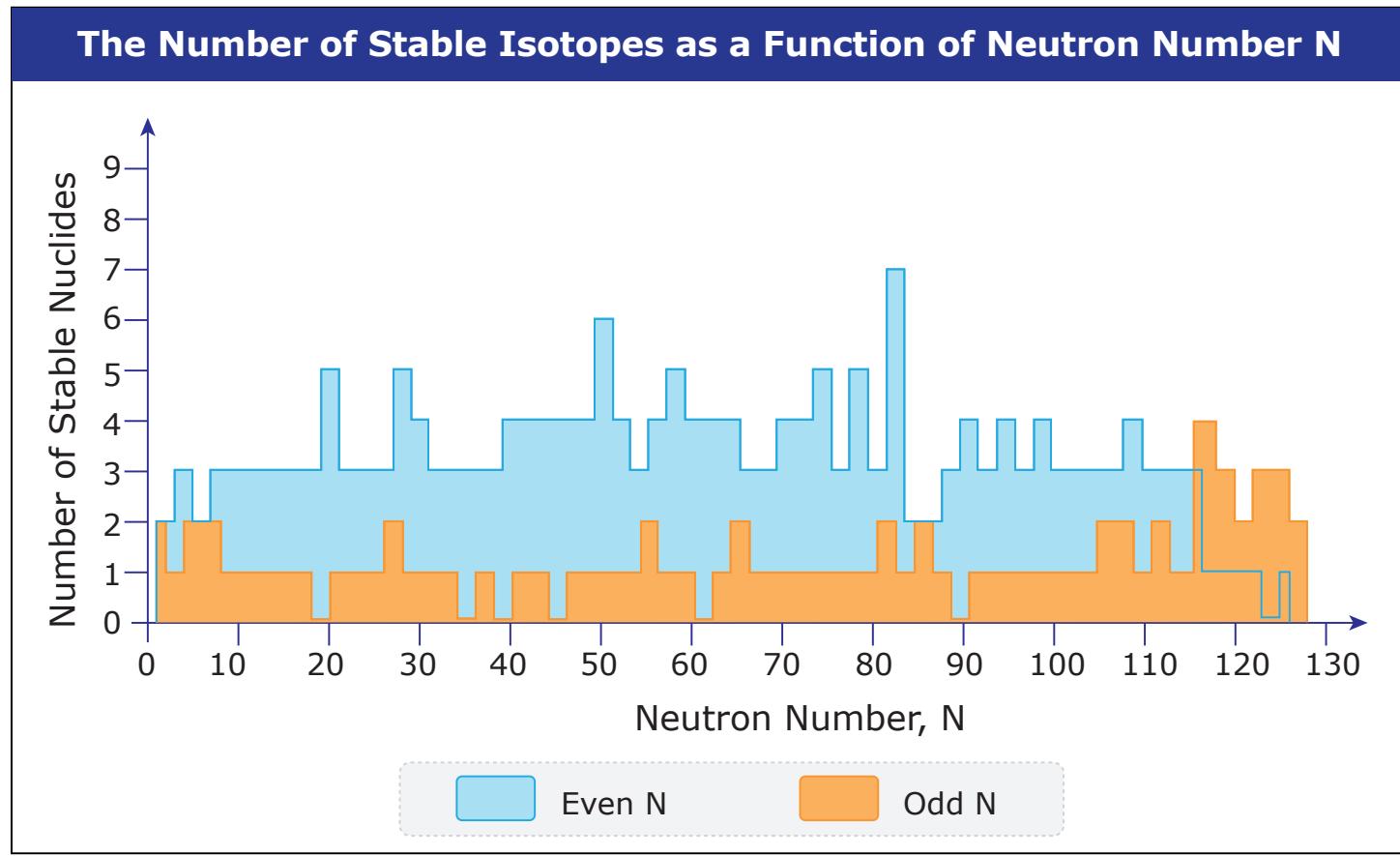


© Monika Patial & Dr. A.K. Jain. License CC BY-NC-ND. This content is excluded from our Creative Commons license. For more information, see <http://ocw.mit.edu/help/faq-fair-use/>.

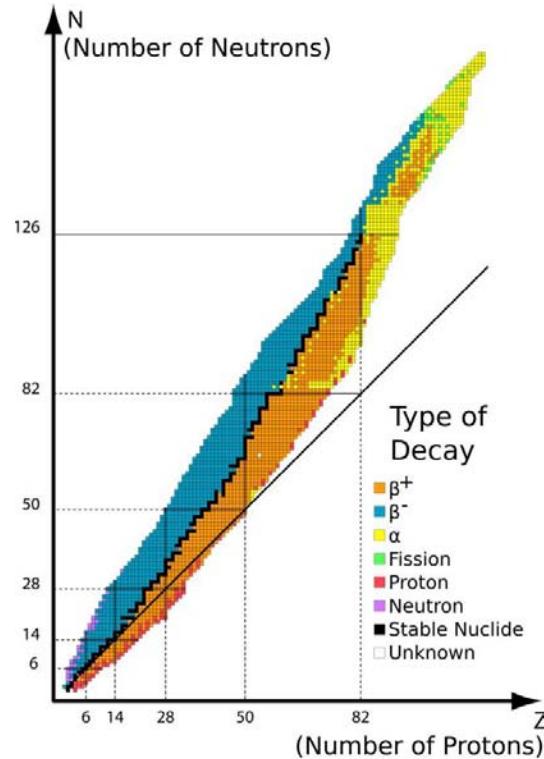
Stability Trends



Stability Trends



An Island of Stability?



Images removed due to copyright restrictions.
See Figures 1 and 2 in Y. T. Oganessian, K. P. Rykaczewski. "A beachhead on the island of stability." Physics Today, 32-38 (Aug. 2015).
[doi: 10.1063/PT.3.2880](https://doi.org/10.1063/PT.3.2880)

© Napy1kenobi, derivative work by Sjlegg. CC BY-SA 3.0. This content is excluded from our Creative Commons license. For more information, see <http://ocw.mit.edu/help/faq-fair-use/>.

<https://commons.wikimedia.org/w/index.php?curid=6703703>

An Island of Stability?

How are superheavy elements synthesized?

Images removed due to copyright restrictions.

See Figures 1 and 2 in Y. T. Oganessian, K. P. Rykaczewski. “A beachhead on the island of stability.” *Physics Today*, 32-38 (Aug. 2015). doi: [10.1063/PT.3.2880](https://doi.org/10.1063/PT.3.2880)

MIT OpenCourseWare
<http://ocw.mit.edu>

22.01 Introduction to Nuclear Engineering and Ionizing Radiation
Fall 2015

For information about citing these materials or our Terms of Use, visit: <http://ocw.mit.edu/terms>.