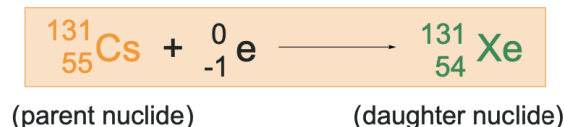


CONCEPT: BAND OF STABILITY: ELECTRON CAPTURE & POSITRON EMISSION

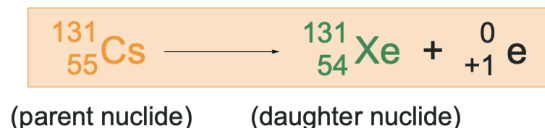
- Either **Electron Capture** or **Positron Emission** happens for isotopes in the _____ corner of the N/Z plot.
 - Since either process is possible, predicting which one predominates is beyond the scope of this course.

Neutron-to-Proton Plot

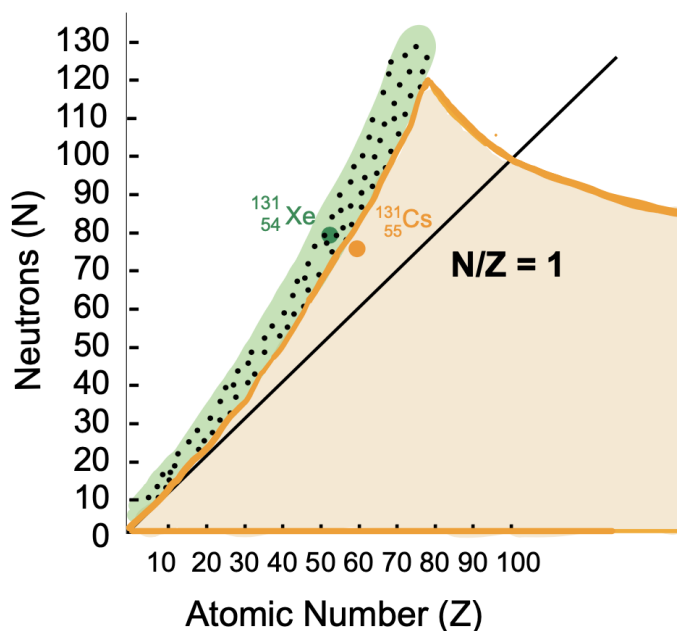
Electron Capture



Positron Emission



- These isotopes have an _____ of p^+
- The end result is the same: Conversion of p^+ into _____



EXAMPLE: Provide the identity of the daughter nuclide created from the electron capture of strontium-80.

- a) Krypton-83 b) Bromine-81 c) Rubidium-80 d) Radon-80

PRACTICE: Provide the identity of the daughter nuclide created from the positron emission of strontium-80.

- a) Yttrium-78 b) Radon-81 c) Zirconium-82 d) Rubidium-80