

AST383 Nucleosynthesis

Assignment 1 - due in written form on Tuesday, January 26 with volunteers chosen to give brief verbal responses in class on that date.

Select an element in each of the three atomic number groups:

$Z < 20$,

$Z = 21$ to 65 ,

$Z > 66$ to 116 .

1. For your three chosen elements, please give the date of discovery, the name of the discoverer and the origin of the element's name.
2. Read Burbidge, Burbidge, Fowler and Hoyle (1957, especially their Appendix) and for ONE of your three chosen elements and its principal isotope (i) identify the process which they claim is responsible for its synthesis and (ii) give a brief description of that process.