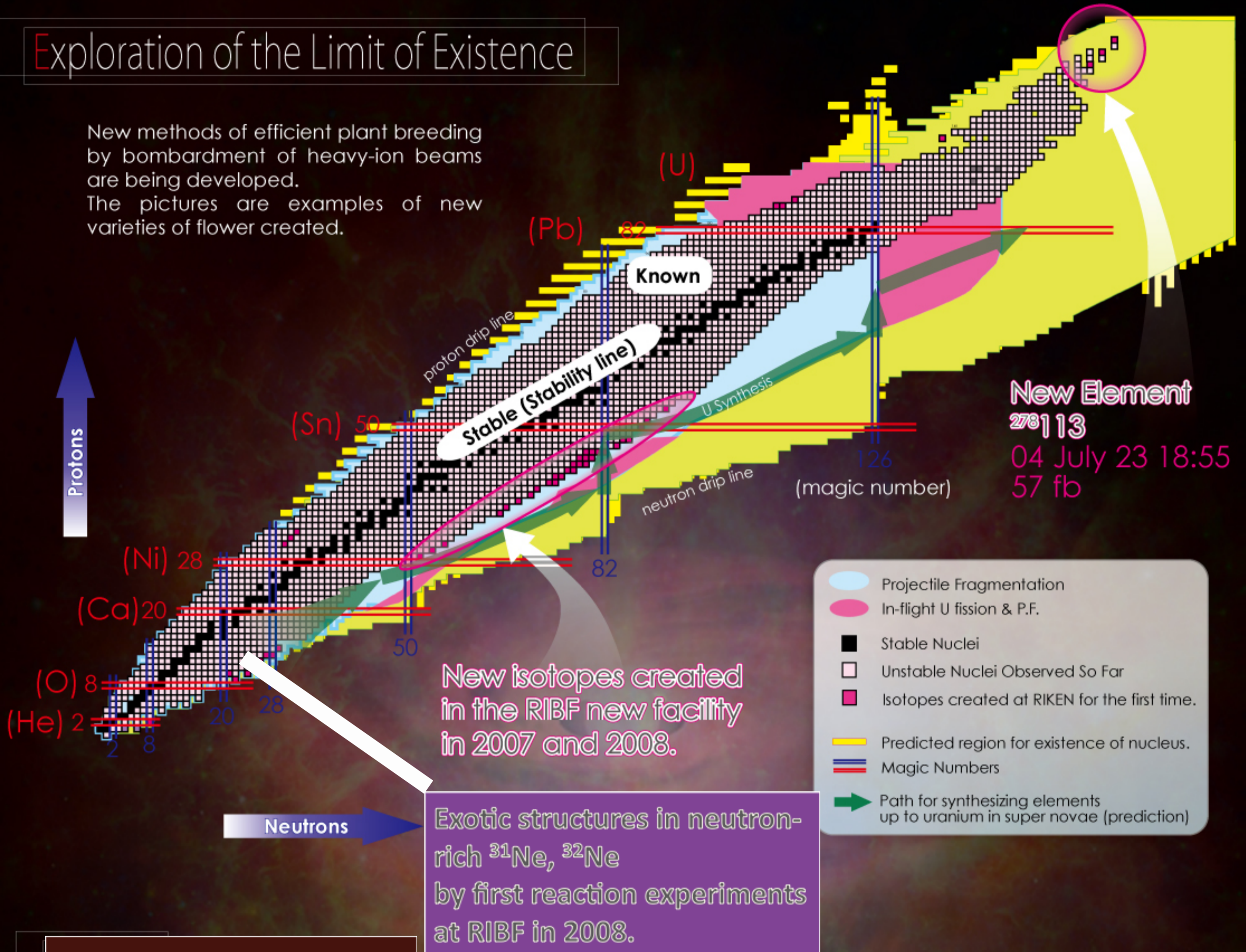


Exploration of the Limit of Existence

New methods of efficient plant breeding by bombardment of heavy-ion beams are being developed. The pictures are examples of new varieties of flower created.

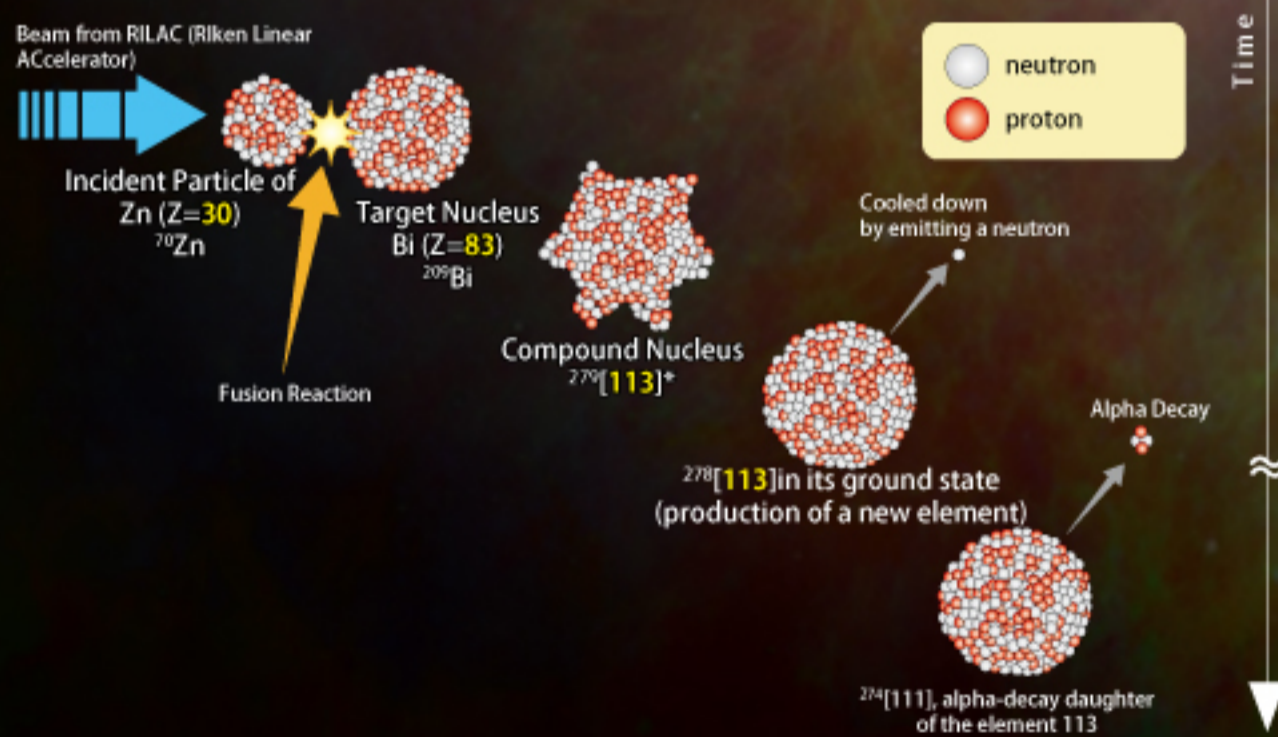


New isotopes created in the RIBF new facility in 2007 and 2008.

Exotic structures in neutron-rich  $^{31}\text{Ne}$ ,  $^{32}\text{Ne}$  by first reaction experiments at RIBF in 2008.

Other Research Highlights

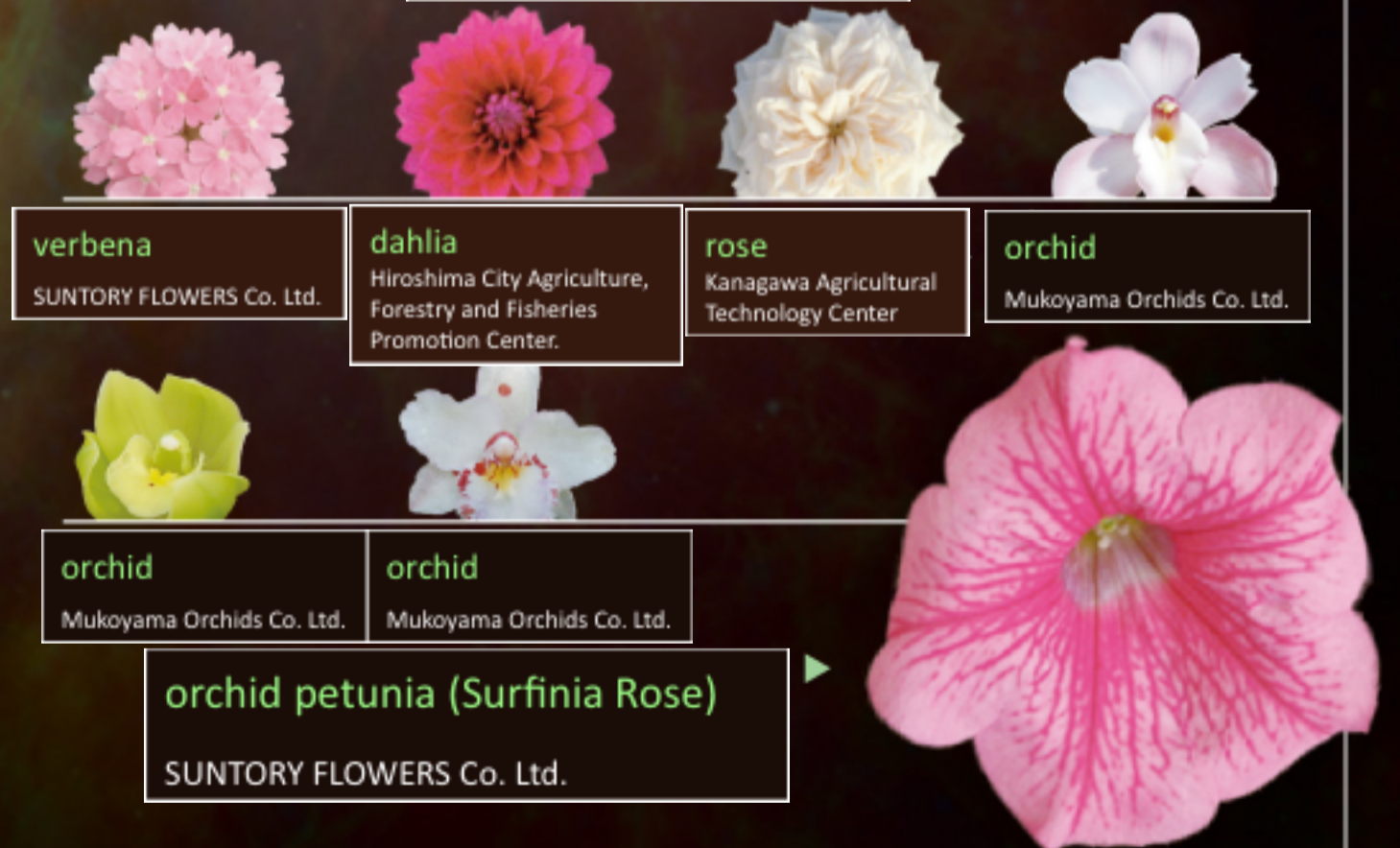
Production of the new element 113



The new element with the atomic number 113 has been found among reaction products created by the  $^{70}\text{Zn}+^{209}\text{Bi}$  interaction. We are claiming the right to name the elements.

New flowers

by heavy-ion irradiation



New methods of efficient plant breeding by bombardment of heavy-ion beams are being developed. The pictures are examples of new varieties of flower created. Recent development is for rice growing in salty water.