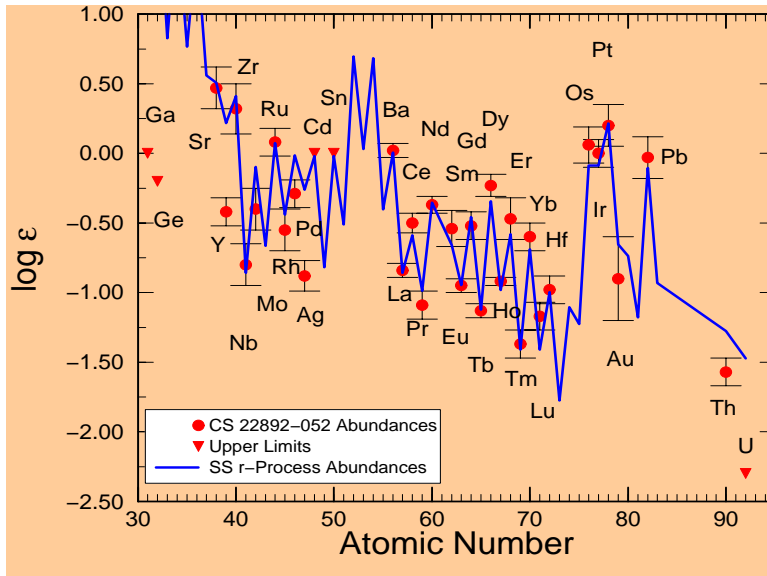


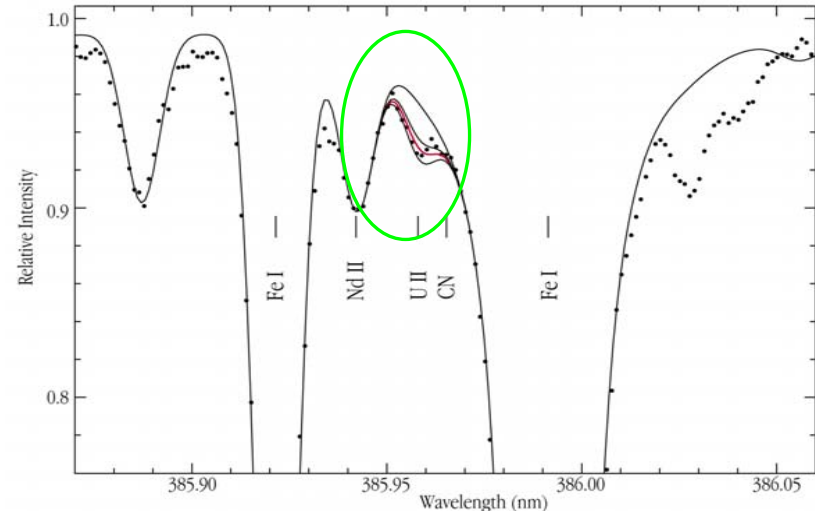
Astrophysical Constraints on the Origin of the Elements



Astronomers associated with JINA are using large-scale surveys to detect and analyze the first generations of stars that were born in the Universe.



First Detection of Uranium in an Ancient Star



Some of these stars show the presence of radioactive elements, such as Uranium and Thorium, from which JINA scientists can directly measure the age of the Galaxy.

Such stars are literally “fossils” that have recorded the abundances of the elements that formed shortly after the Big Bang.

As JINA scientists expand the search for many more primitive stars, nature will reveal the “pattern of creation”.