Study The Neutron-Capture Processes Based on The Odd Isotopic Fractions of Barium

Cui Wenyuan, Hebei Normal University, China

- **Motivations**
  - Why isotopes important?
  - What is the correct value of the isotopic fraction of Ba in the solar pure r-process?

The solar r-pattern obtained by subtracting the s-components.
Under the same barium abundance, the stellar model and classic method give different isotopic yields.

- We measured the odd isotopic fractions of barium for five r-II stars and one r/s stars.