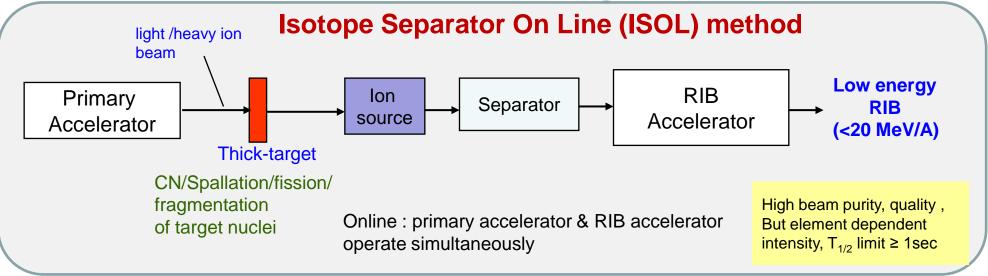
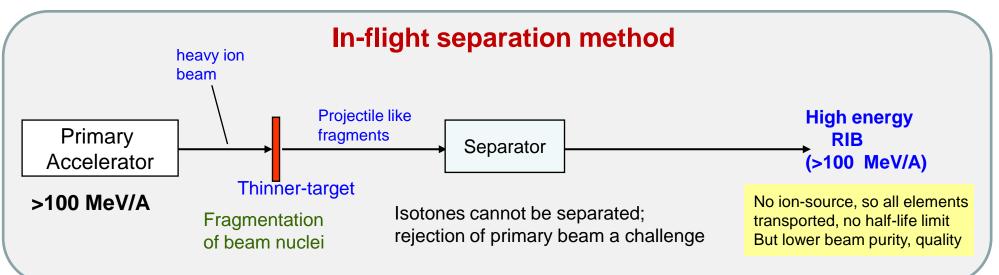
How to produce RIB? Two methods for RIB production





Challenges

Increase RIB intensity & find new ideas for experiments with low intensity beams

 $I_{RIB} = I_{primary} \times N_{target} \times Production cross-section \times efficiency factor$

- High intensity primary beam
- Development of thick, porous and refractory targets that can handle high power beams
- Efficient ionization, separation & post-acceleration of RIB (ISOL) & high acceptance, good separation (IF) for facility
- State of the art detector systems (traps, arrays, isotope/isobar separators, fragment separators, storage rings) & New ideas to improve S/N ratio

RIB development is highly R&D intensive. But new techniques are continuously evolving

Rare Isotope Production Facilities World-Wide

