

Nuclear Astrophysics Panel Discussion

Key Science Questions

- Light Element Synthesis ($<Fe$)
 - Novae, rp process, ν process, CCSN, etc.
 - Synergy with next-generation γ -ray astron.
 - Mostly p or α capture on p -rich beams \rightarrow needs p -driven ISOL beams, charge breeding (CANREB)
 - Parallel RIB capabilities for beam development & longer beam times.
- Heavy Element Synthesis ($>Fe$)
 - $s/i/r$ processes: (n, γ) on n -rich beams
 - p/α processes: p, α capture on p -rich or moderately n -rich beams.
 - e -Linac beams for i/r process, p -driven for remainder.