

Key deliverables

- Identify r process site
 - frequency events
 - Predictions yields from individual events
 - Observational constrains
 - Ejecta masses (role EoS)
- Yields from supernova (Rotation - convection)
- Reaction rates to determine yields of C, O, Mg, Na (No major modifications by explosion)
 - Strong impact stellar evolution
 - Globular clusters

Key deliverables

- Intermediate mass stars outcome
- Coulomb corrections EoS and rates (experiments??)
- Stellar high density EoS
 - Clustering at low densities
 - High density and phase transitions
 - Temperature dependence
 - Observational constrains (cooling curves)

Key deliverables

- Nuclear reactions
 - Experimental constrains. Reaction theory for indirect methods
 - Ab-initio approaches
 - Global approaches
 - Consistent structure and reaction
 - Uncertainty estimates (statistical, systematic), propagation to simulations

Key deliverables

- Connection ab-initio methods to DFT approaches
- Training students

Priorities

- European virtual institute (beyond networking)
- Keep expertise and training. Job perspectives. Nuclear Astrophysics profile.
- Continuing progress achieved in previous years: training aspects (simulation labs). Access to small countries and starting groups.