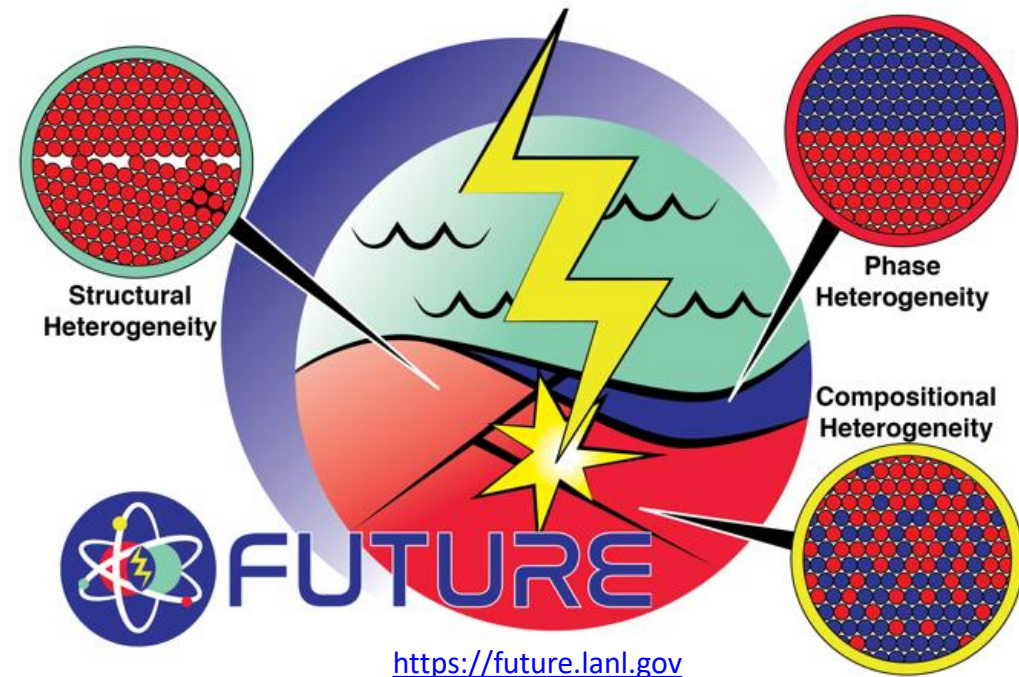


Fundamental Understanding of Transport Under Reactor Extremes (FUTURE)

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MISSION: To understand how the coupled extremes of irradiation and corrosion work in synergy to modify the evolution of materials by coupling experiments and modeling that target fundamental mechanisms.



RESEARCH PLAN

The goal of FUTURE is to reveal the fundamental factors dictating the evolution of materials under the combined extremes of irradiation and corrosion to enable a descriptive and ultimately predictive understanding of these coupled extreme environments. We target the heterogeneities in structure, phase, and composition that define real-world materials that govern the irradiation and corrosive evolution of materials.