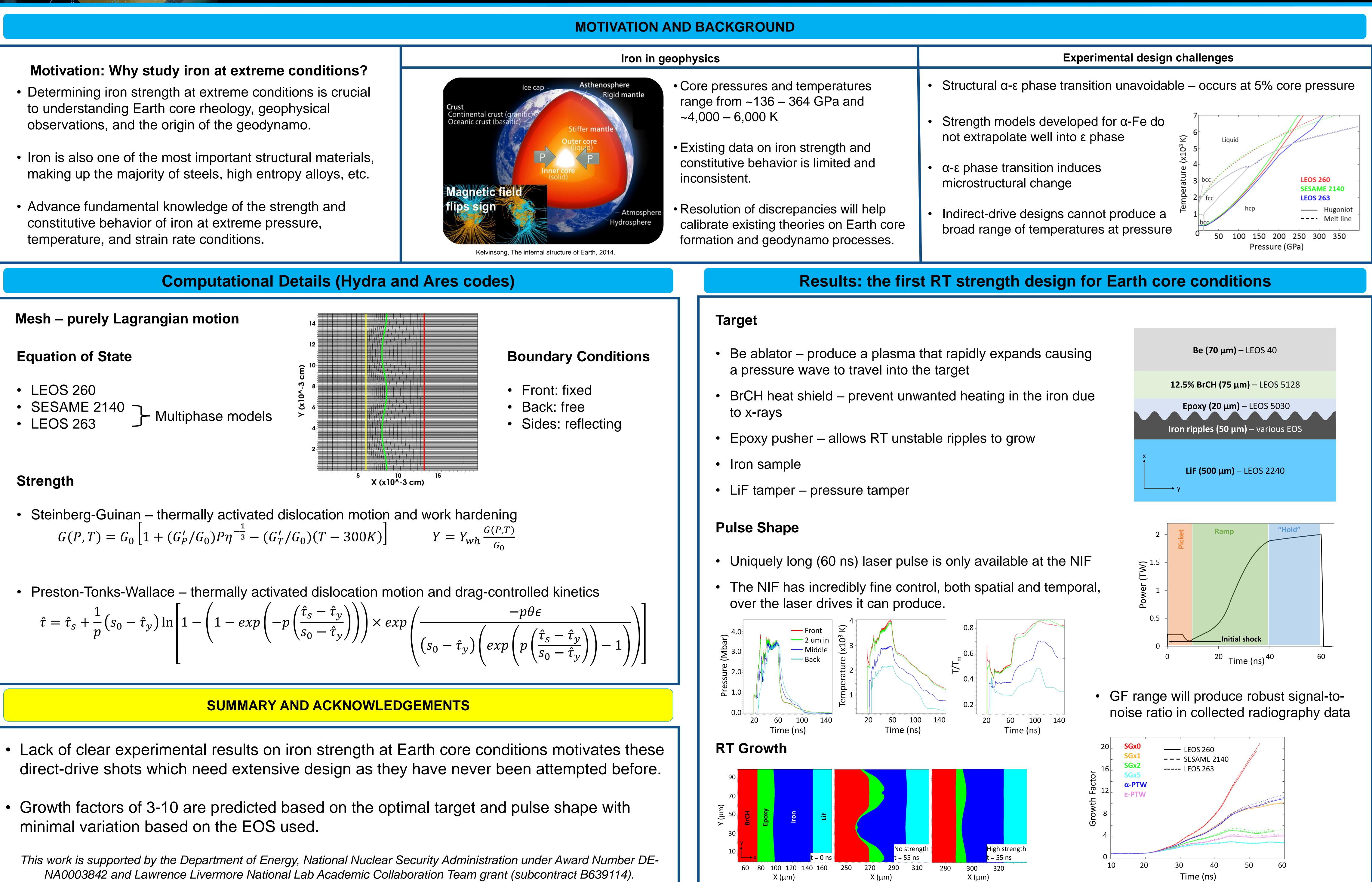


- to understanding Earth core rheology, geophysical observations, and the origin of the geodynamo.
- constitutive behavior of iron at extreme pressure, temperature, and strain rate conditions.



$$\hat{\tau} = \hat{\tau}_s + \frac{1}{p} \left(s_0 - \hat{\tau}_y \right) \ln \left[1 - \left(1 - exp \left(-p \left(\frac{\hat{\tau}_s - \hat{\tau}_y}{s_0 - \hat{\tau}_y} \right) \right) \right) \right]$$

Computational design of high-pressure iron Rayleigh-Taylor strength experiments for the National Ignition Facility

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