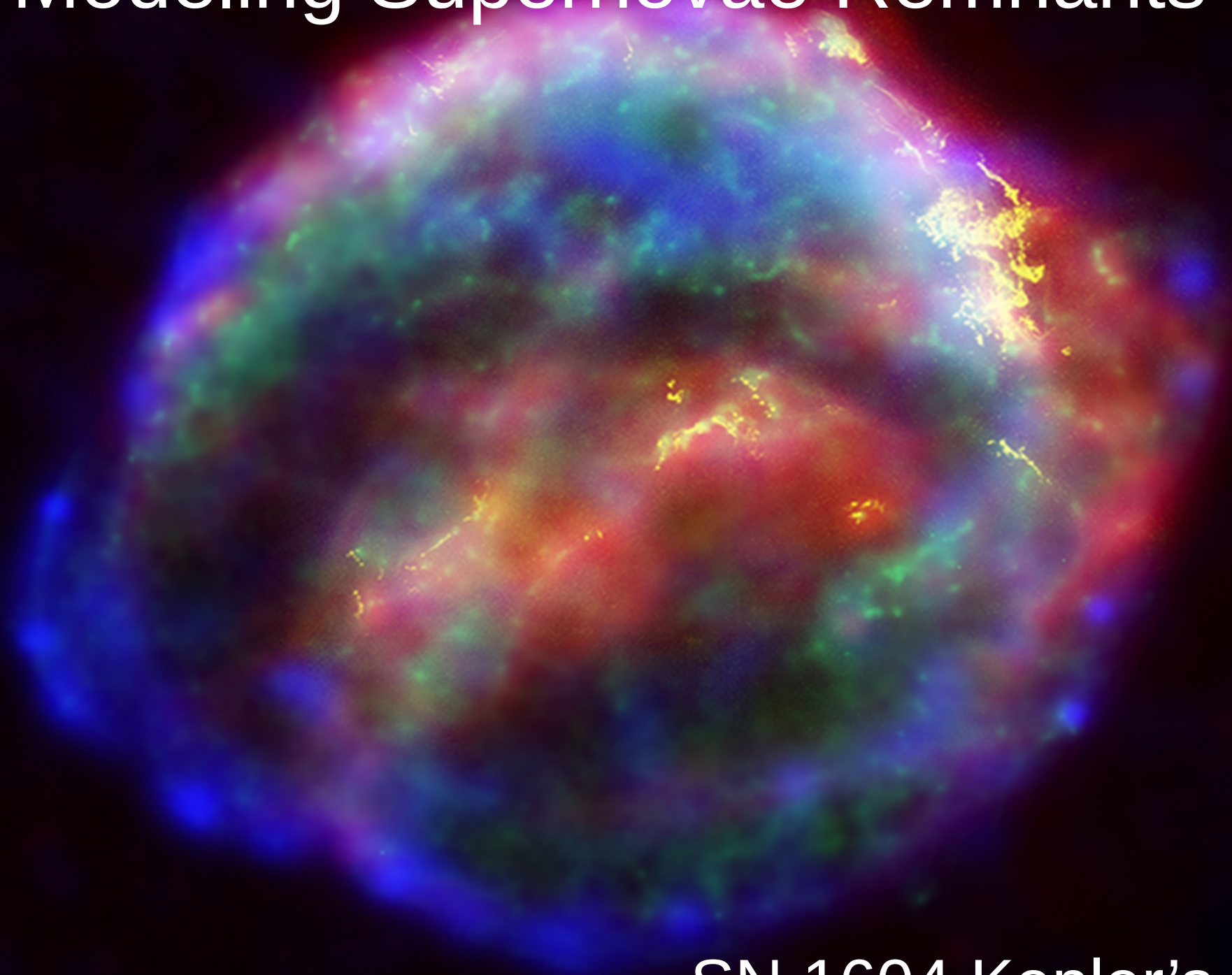
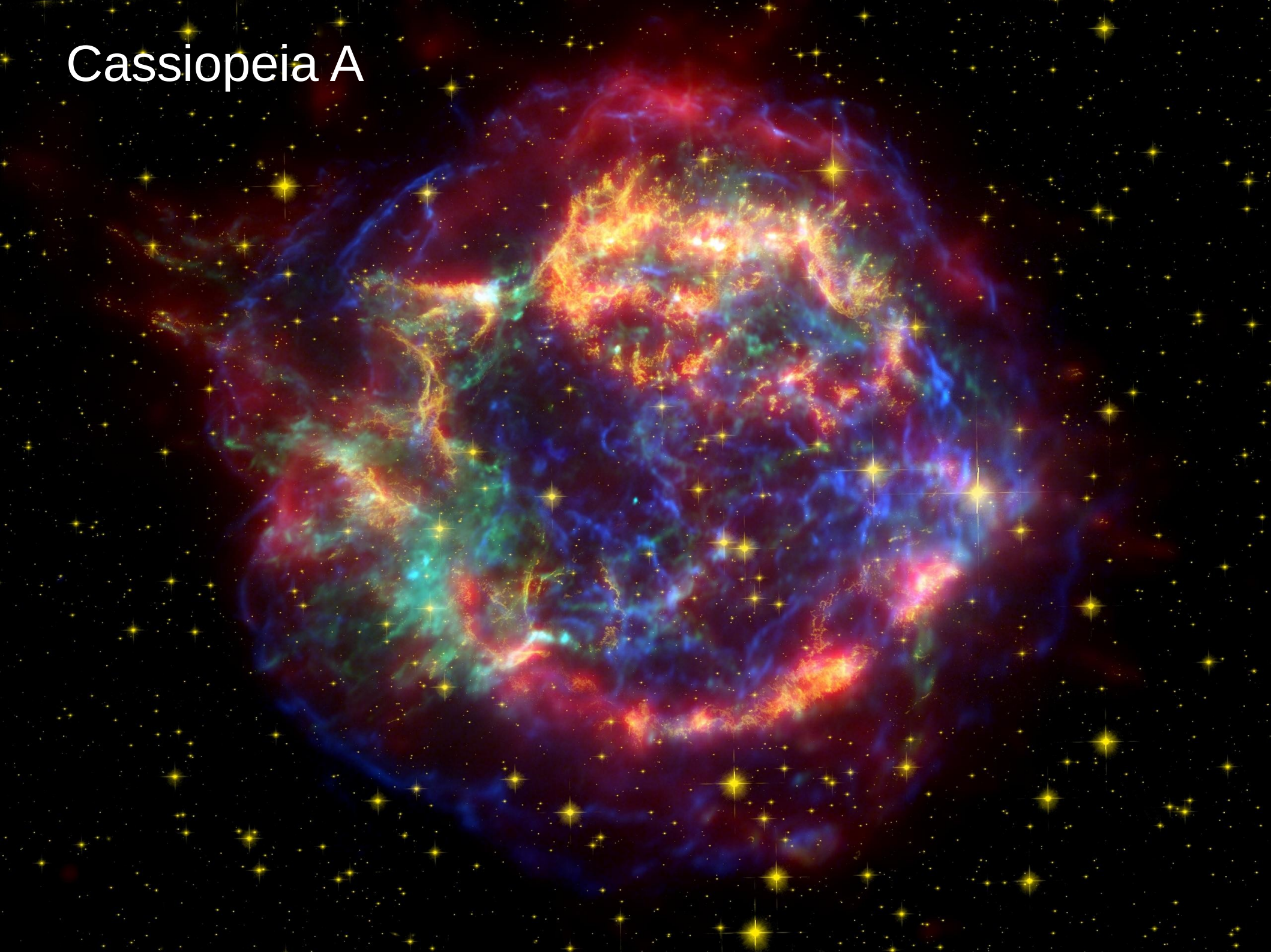


Modeling Supernovae Remnants

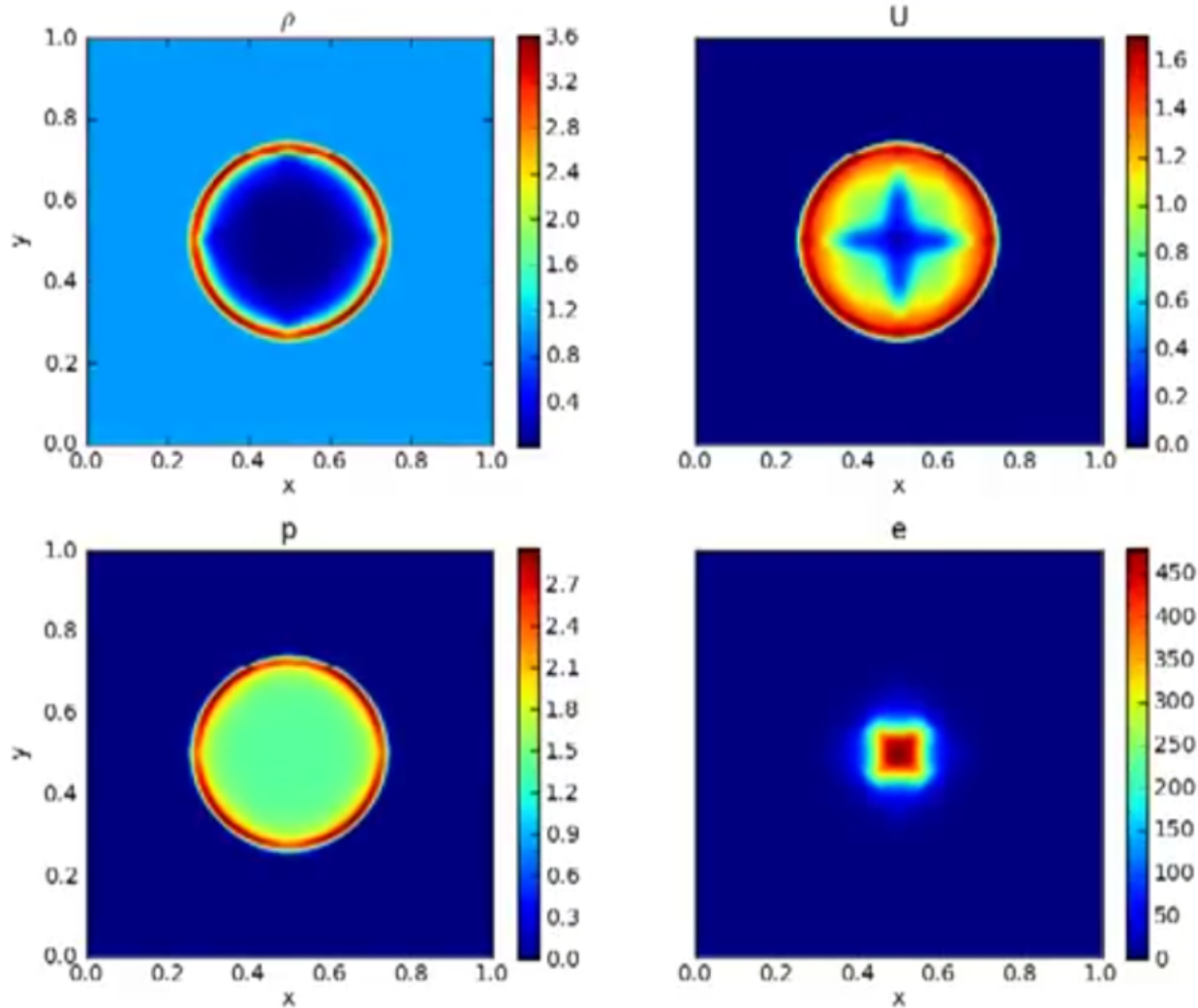


SN 1604 Kepler's SN

Cassiopeia A



Pyro – The Sedov Explosion



$t = 0.05540$

<https://zingale.github.io/pyro2/>

Project

- Assess which supernovae remnants we can model in the Sedov-Taylor adiabatic expansion phase.
- Experiment with Pyro using different blast initial conditions to determine how best to model various supernova remnants.
- Determine how shock speed and temperature depend on initial conditions.