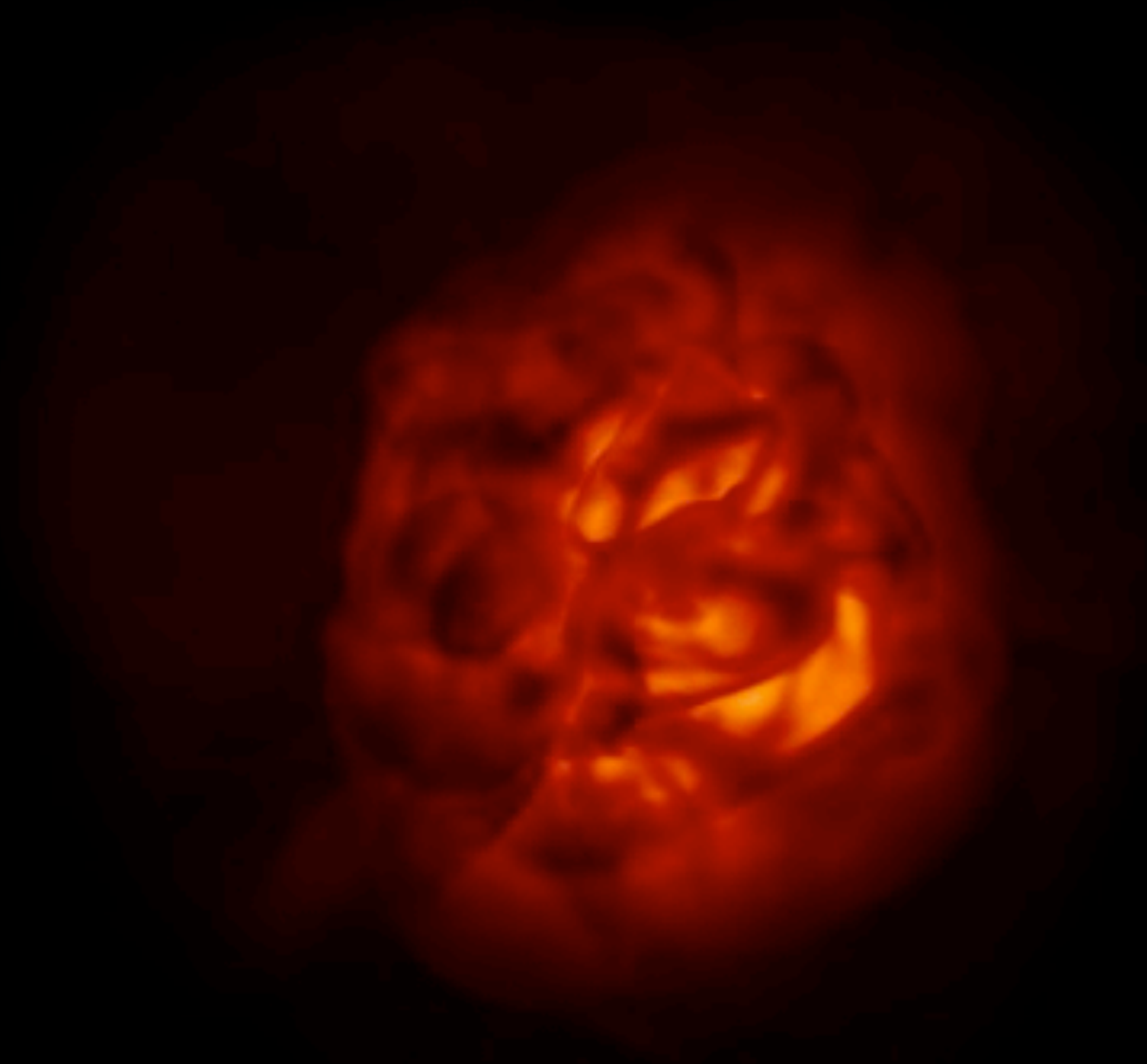


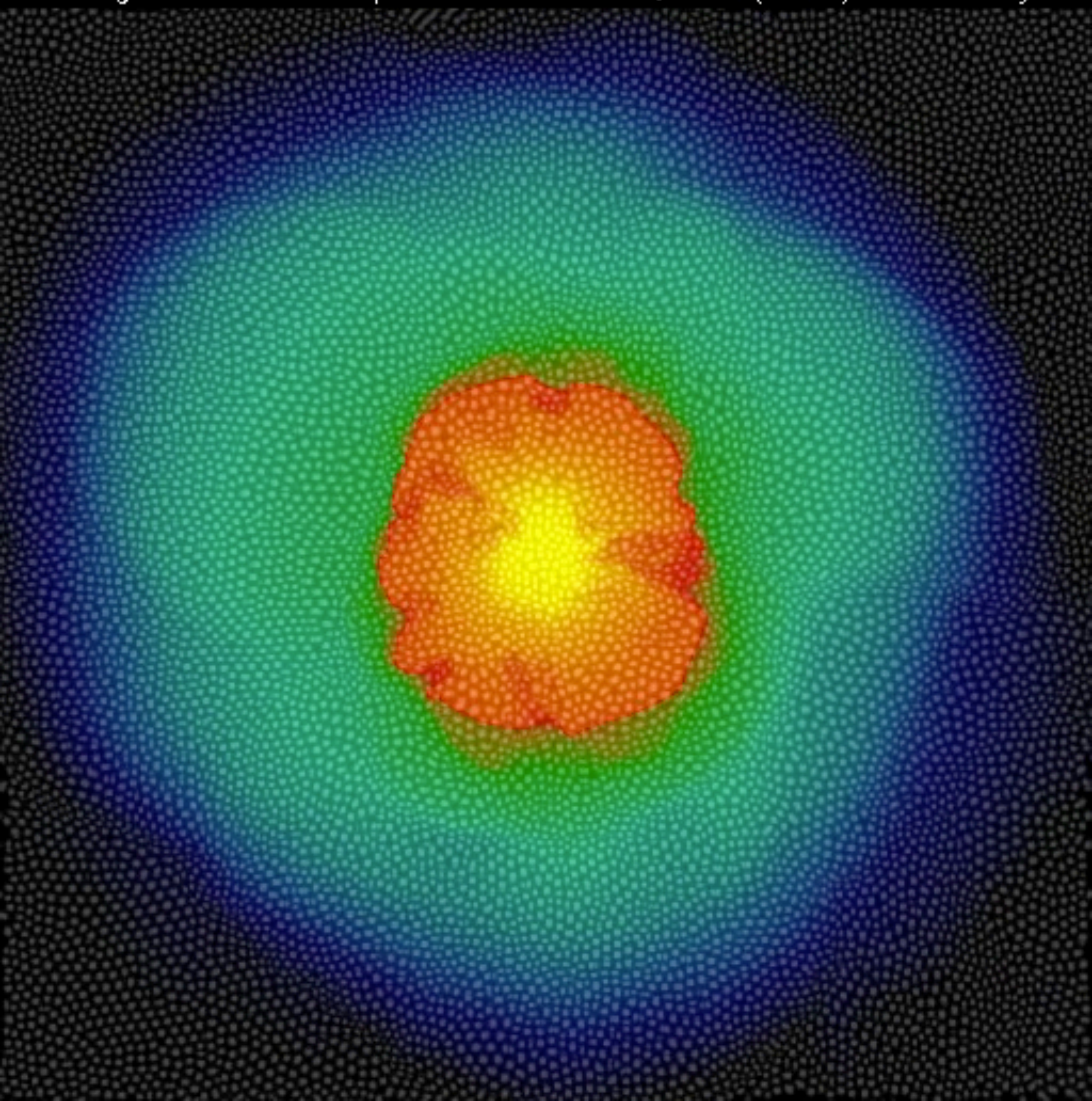


Höfner & Freytag 2019

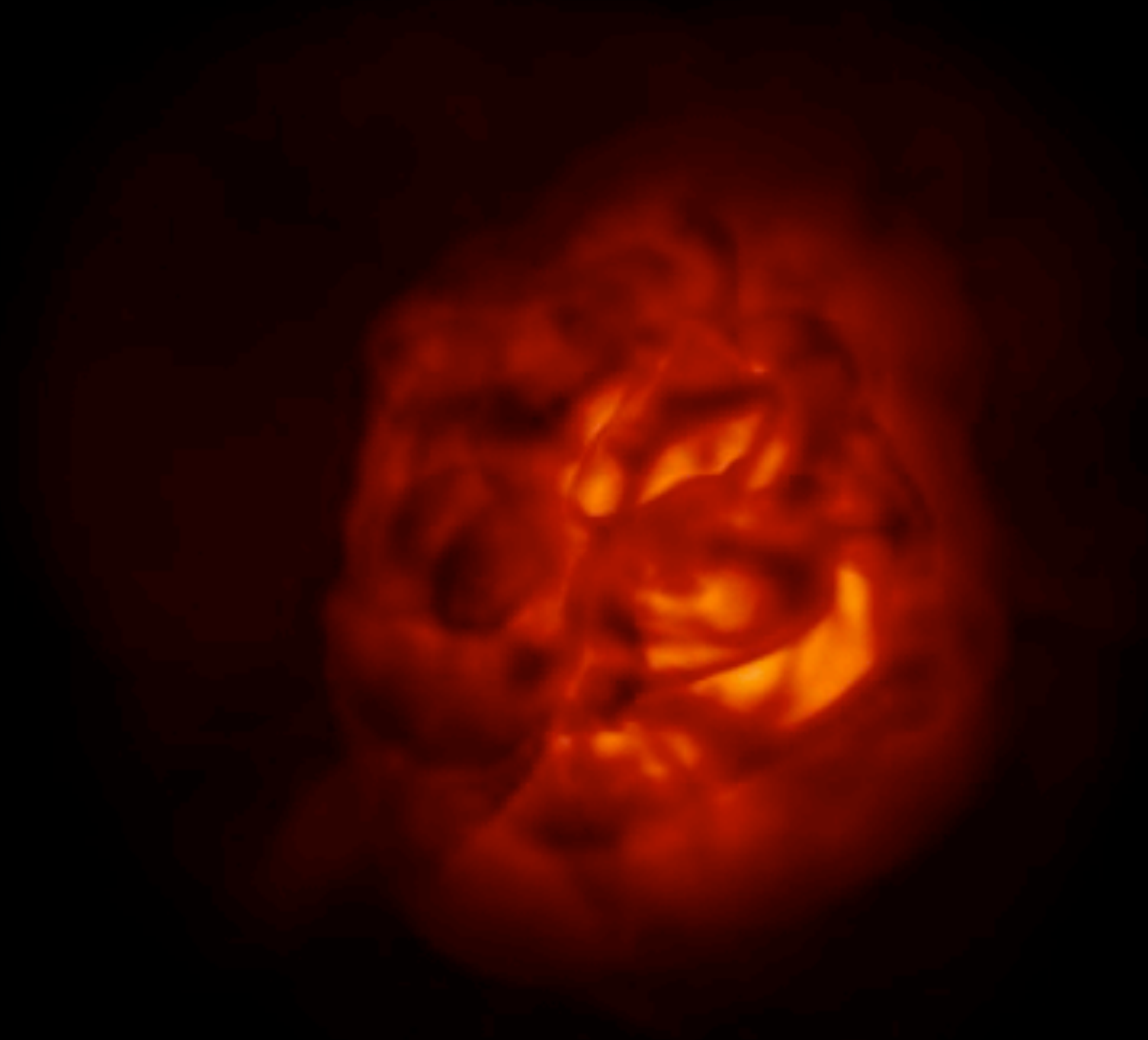
st28gm06n038: Surface Intensity(3r), time(471)= 5.237 yr



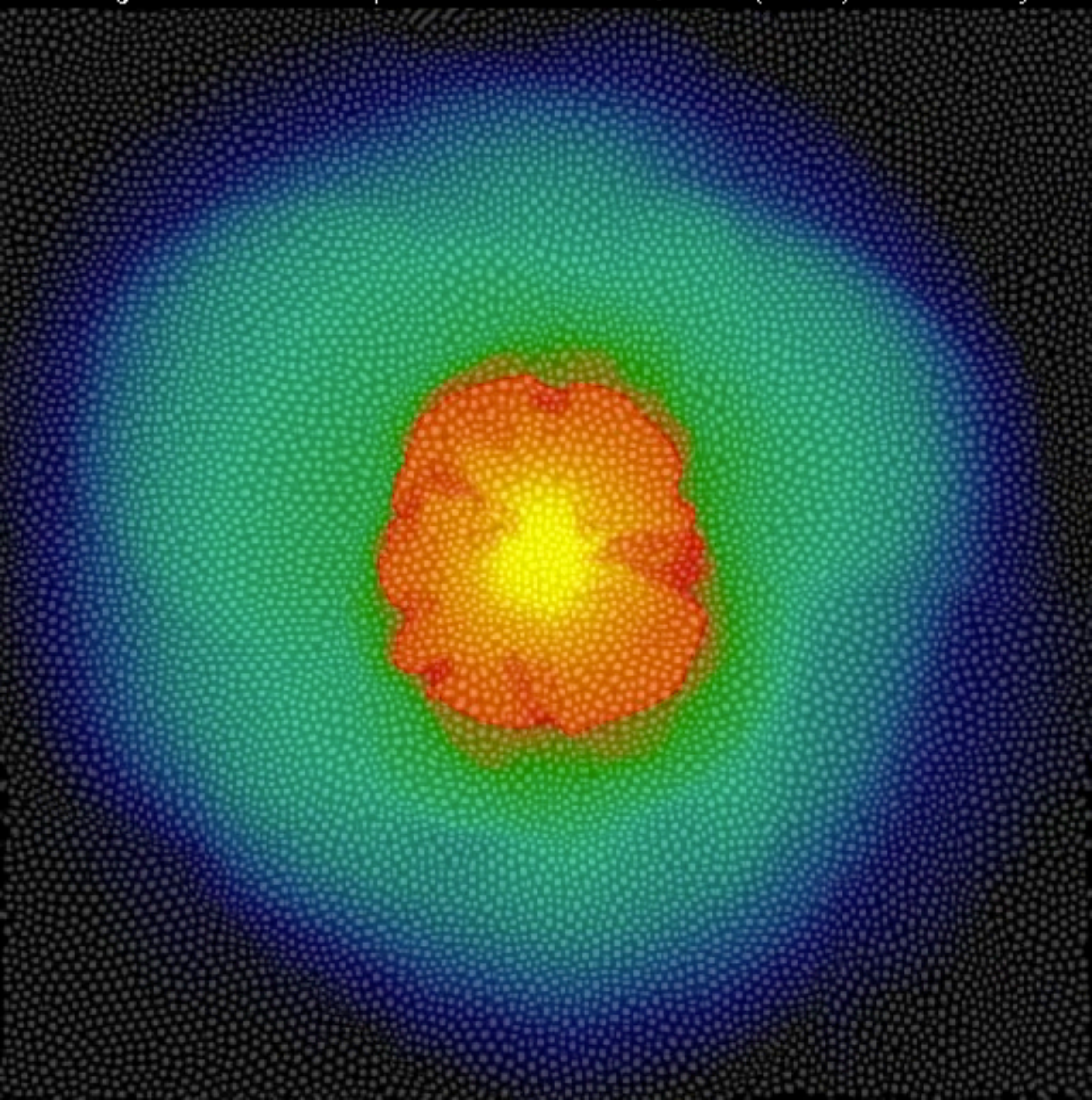
st28gm06n038: Temperature+Bubbles, time(471)= 5.237 yr



st28gm06n038: Surface Intensity(3r), time(471)= 5.237 yr

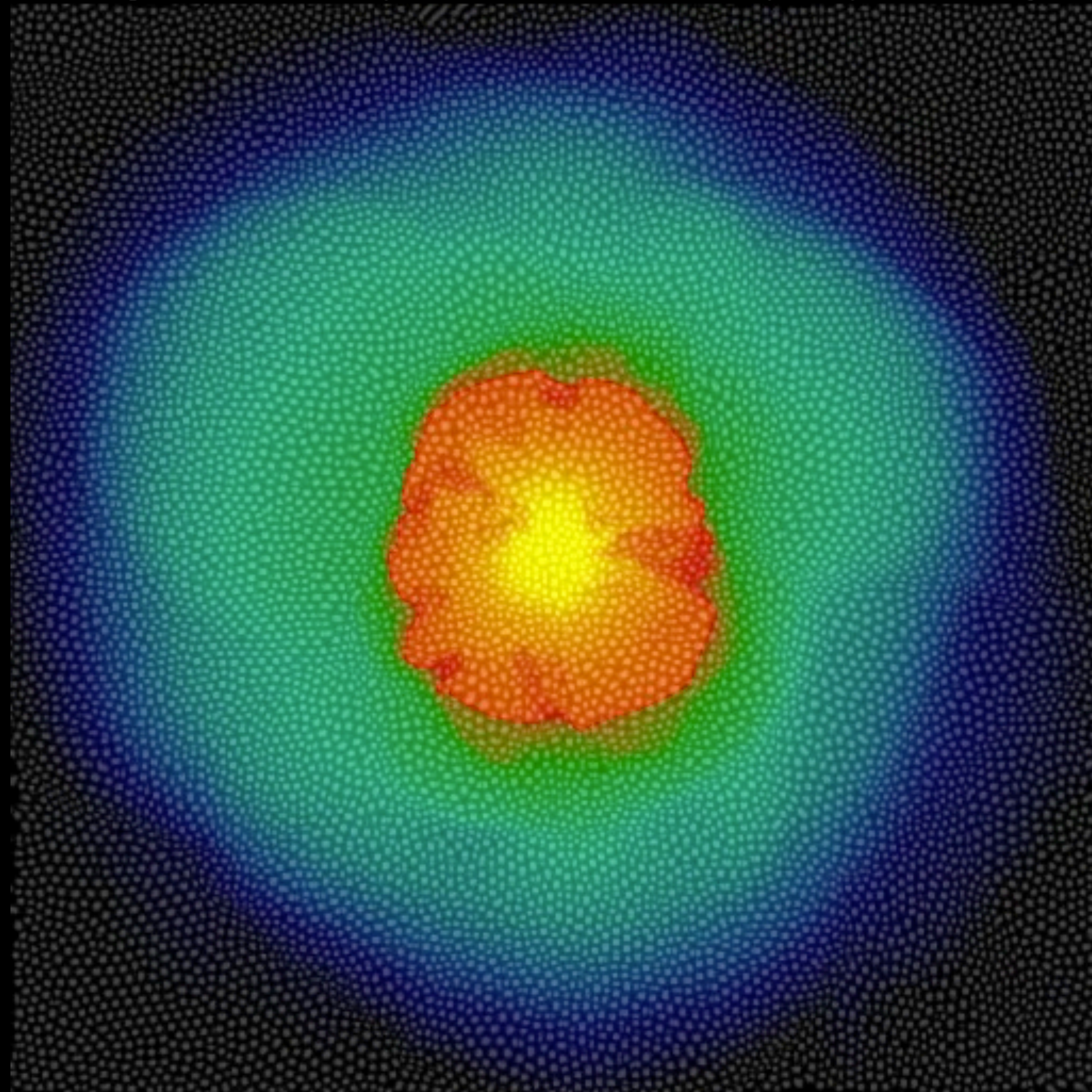


st28gm06n038: Temperature+Bubbles, time(471)= 5.237 yr

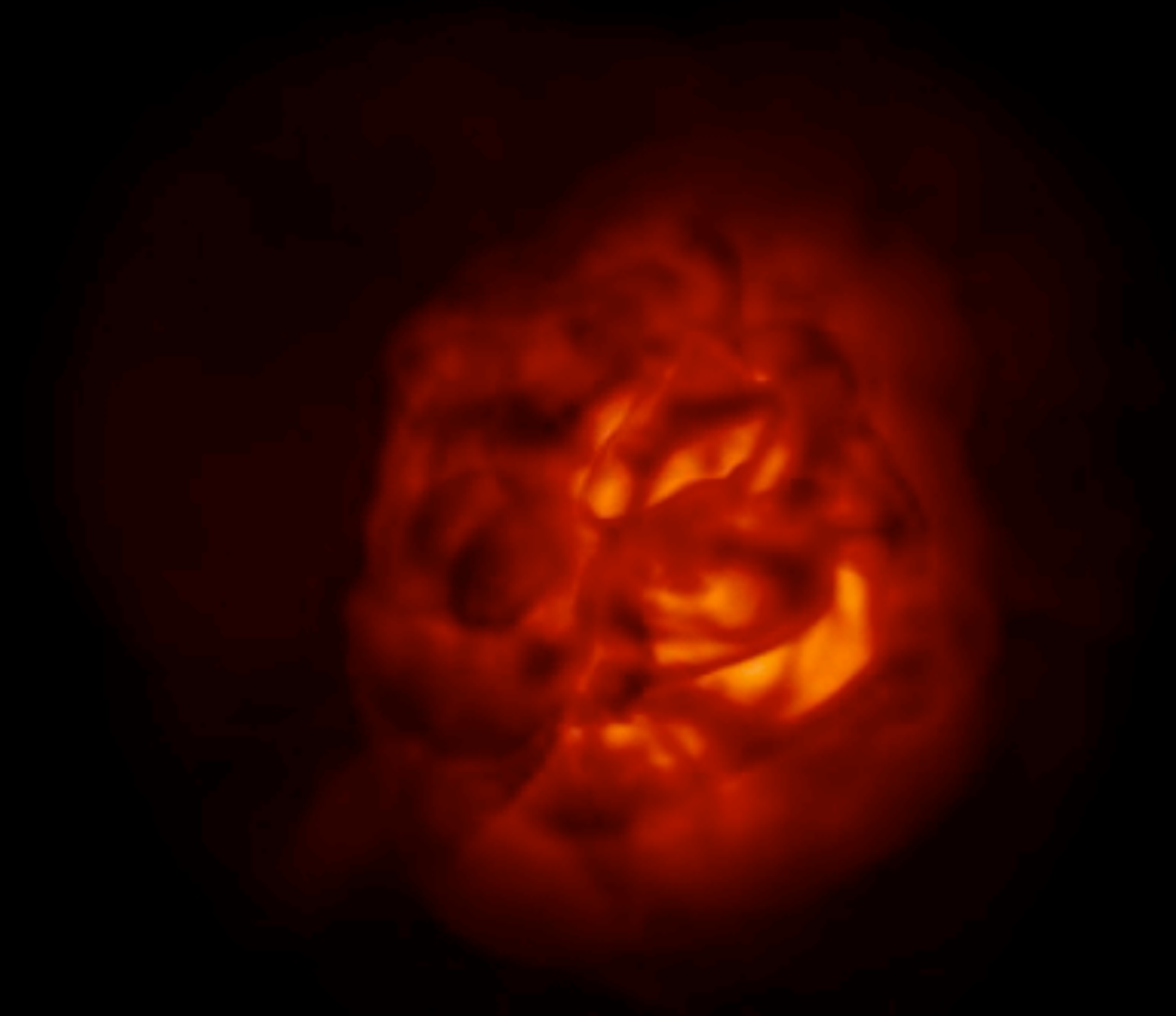


Track the physics behind

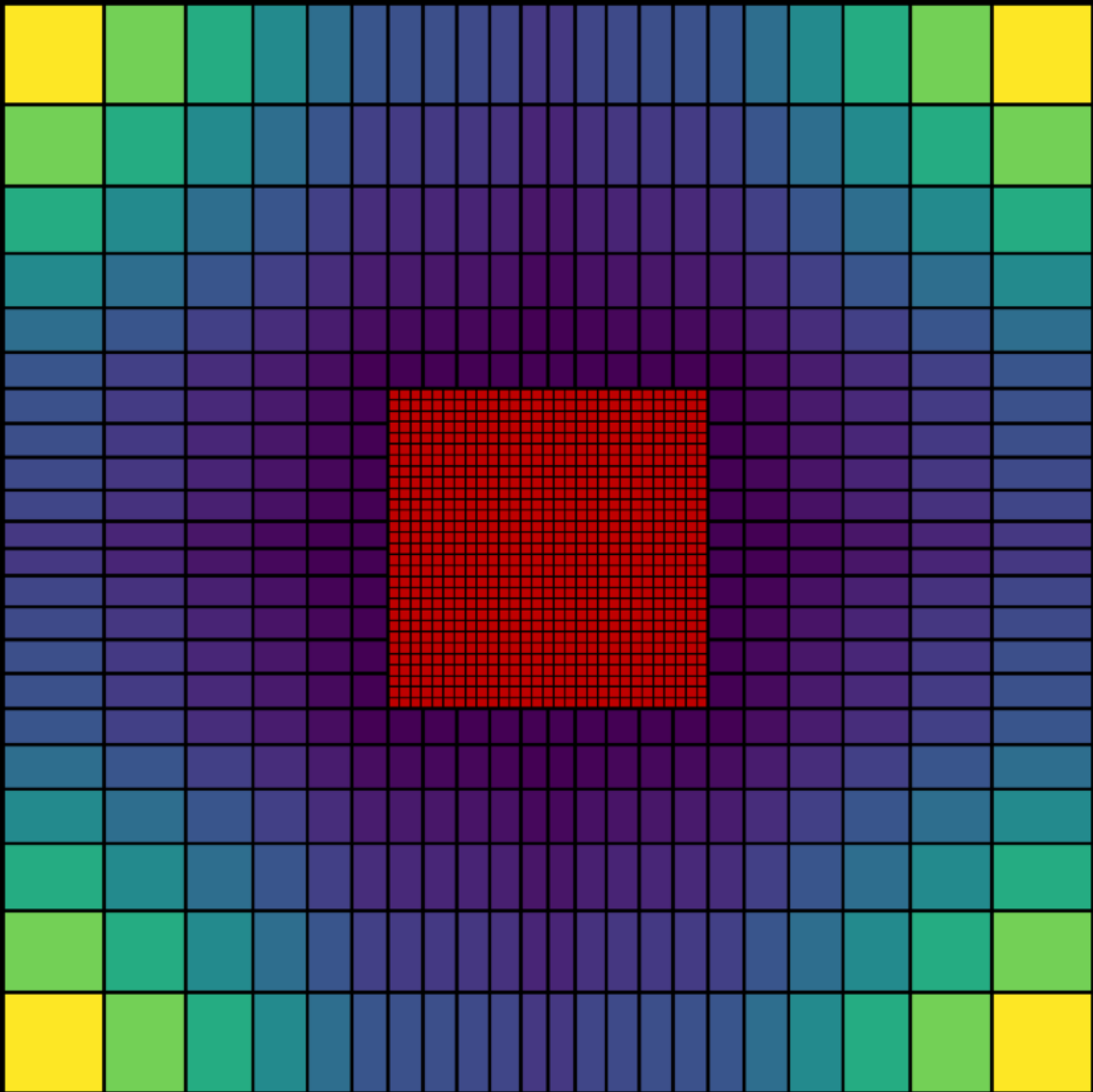
st28gm06n038: Temperature+Bubbles, time(471)= 5.237 yr



st28gm06n038: Surface Intensity(3r), time(471)= 5.237 yr



CO5BOLD



- Solves the coupled non-linear equations of compressible hydrodynamics (with an approximate Roe solver) and non-local radiative energy transfer.
- The numerical grid is Cartesian and the computational domain and all individual grid cells are cubical.
- Gravitation is included as an external potential, with a general $1/r$ profile, that is smoothed in the central region of the star.
- In the very central volume (core of star), heat is added as a constant source term, corresponding to the stellar luminosity.
- The improvement with respect previous works is the treatment of dust