

# Isolated Neutron Stars

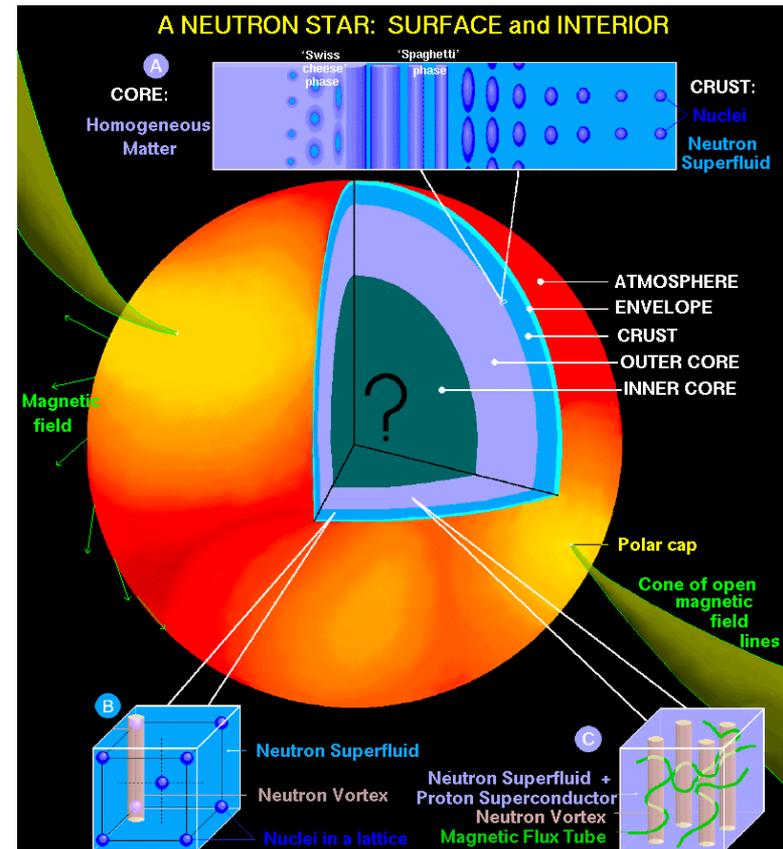
**Nils Andersson & Kostas Kokkotas**

*mano a mano*

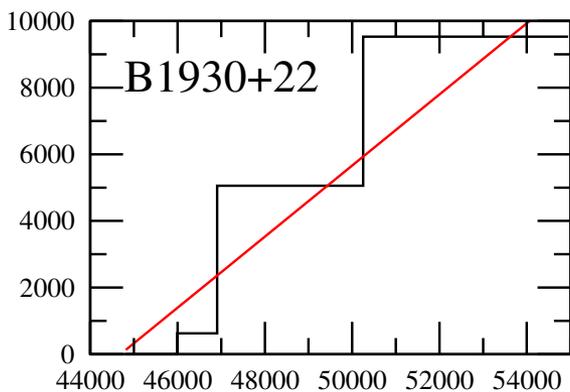
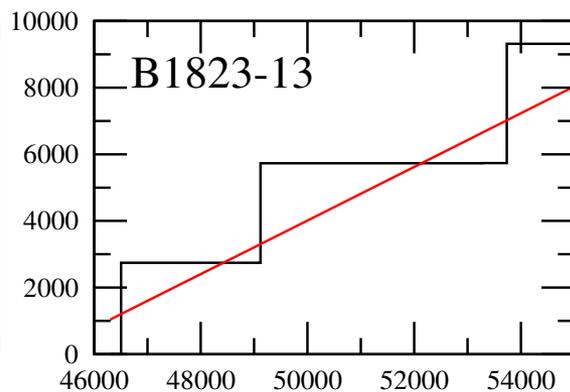
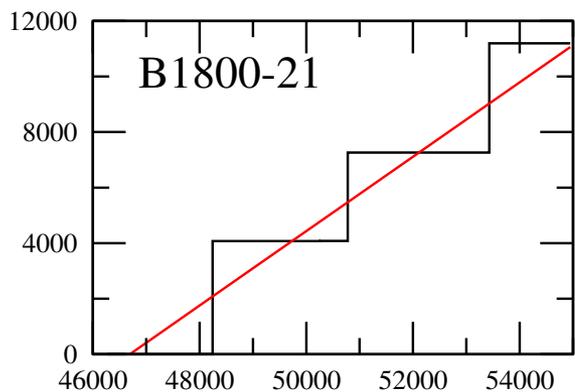
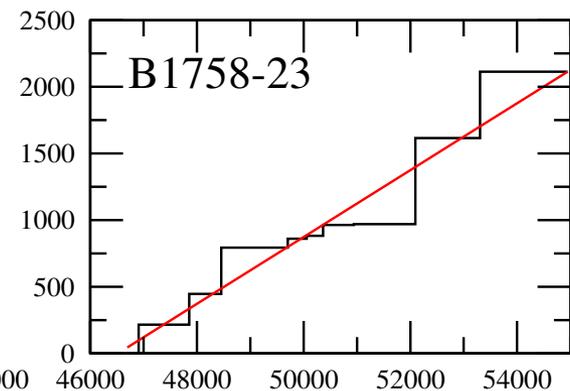
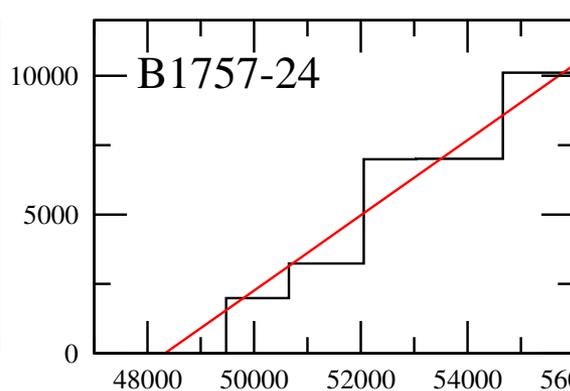
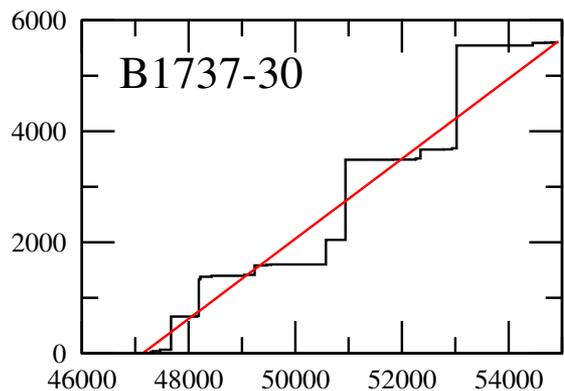
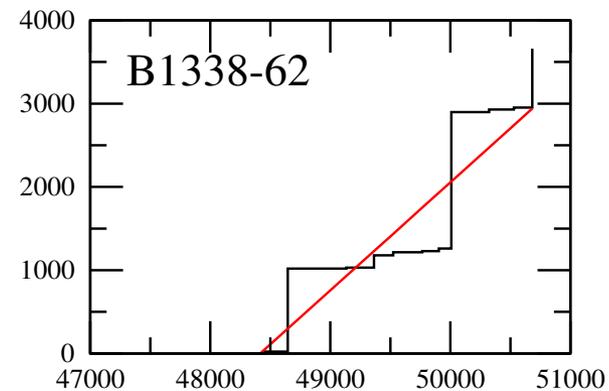
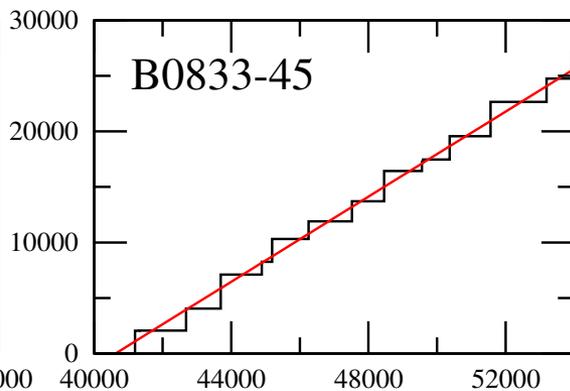
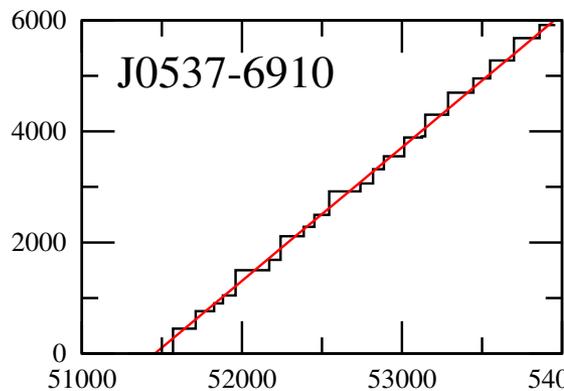
Want to use observations to probe matter at supranuclear densities.

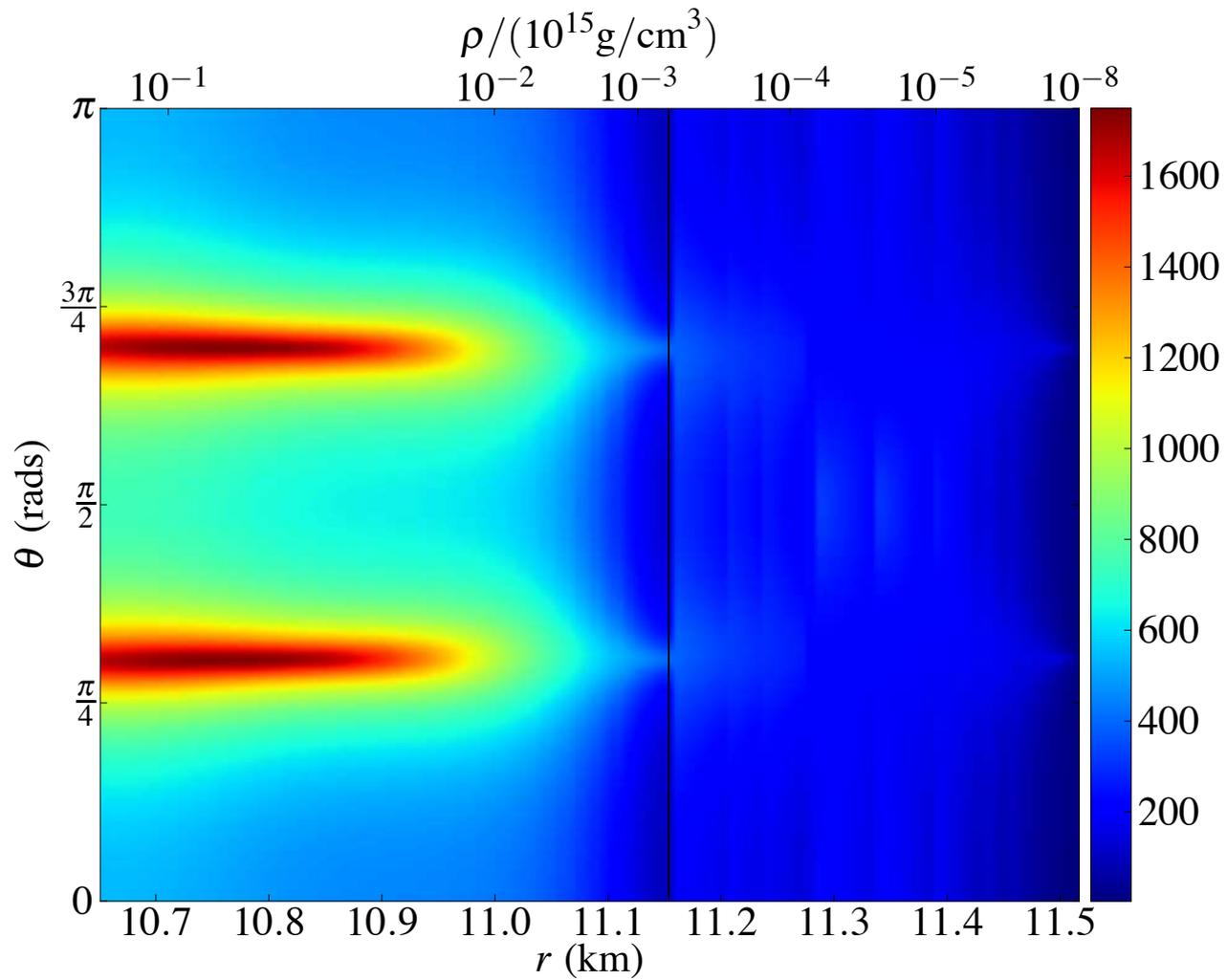
A “minimal” theory model requires:

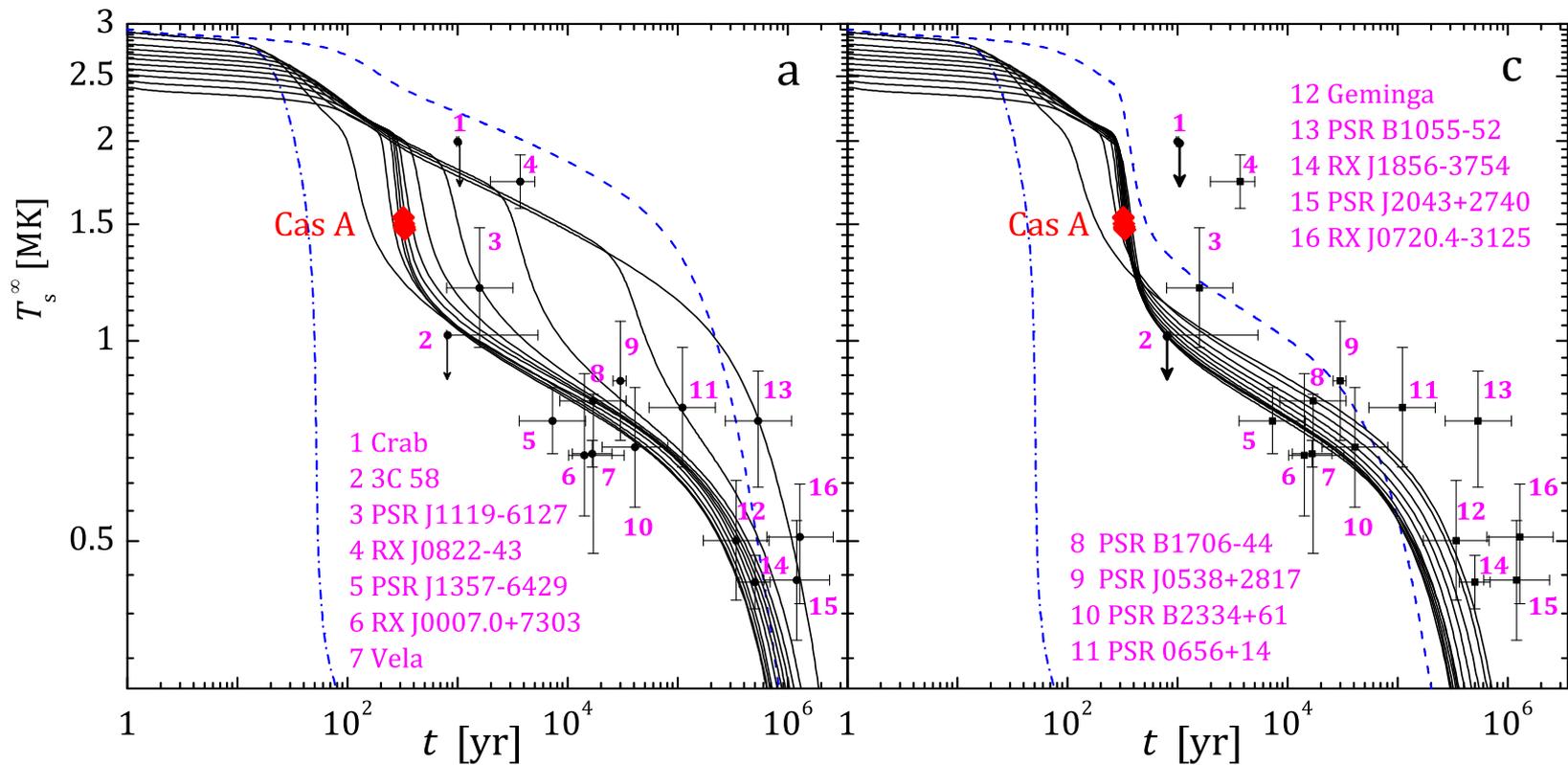
- supranuclear equation of state (hyperons, quarks etc.)
- elastic crust (neutron superfluid+vortices)
- magnetic field (configuration, currents?)
- temperature profiles (exotic cooling mechanisms?)
- superfluid/superconductors (vortices vs flux tubes?)
- rotation (various instabilities)
- relativistic gravity

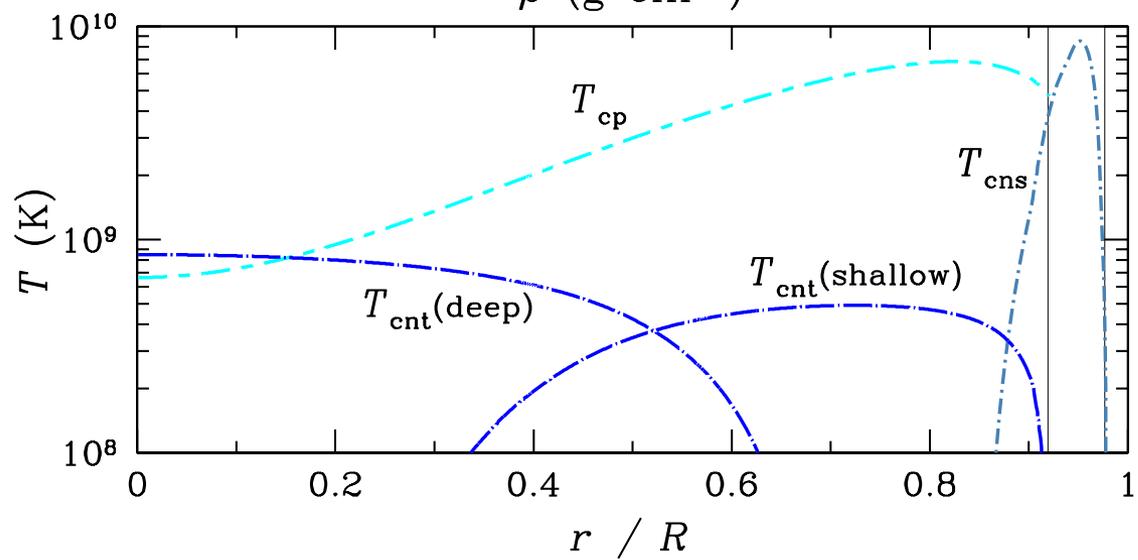
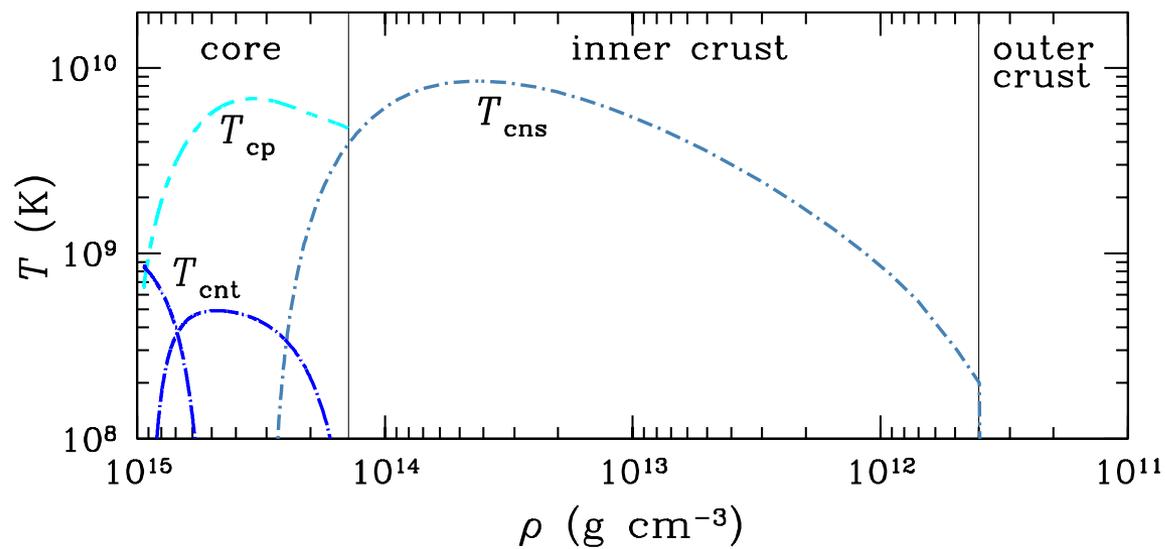


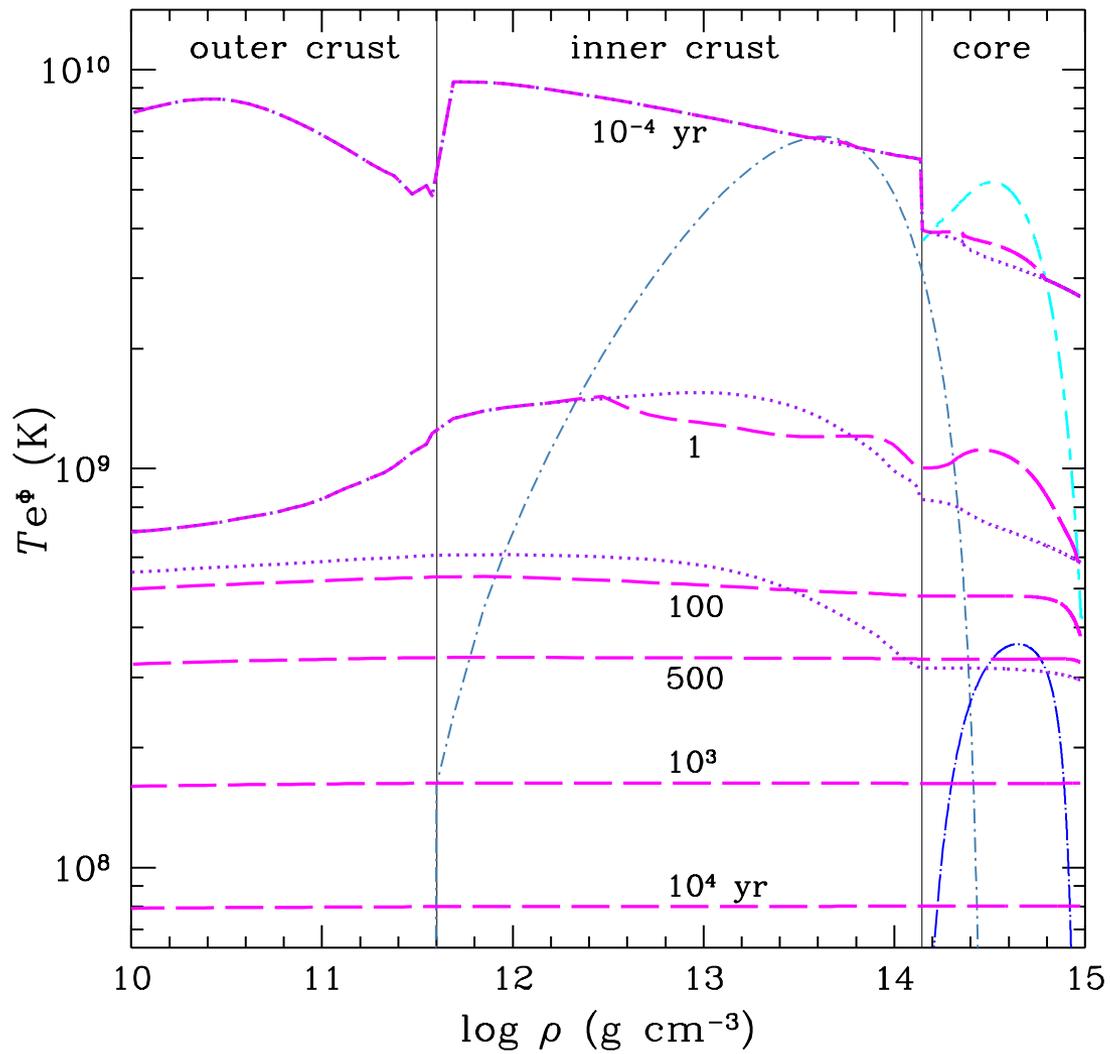
[courtesy Dany Page]











$t = 1.0e-06$  yr

