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Dynamic Collapses of Relativistic Degenerate Stellar Cores and  
Radiation Pressure Dominated Stellar Interiors

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**Highlights**

- Dynamic Collapses of Relativistic Degenerate Stellar Cores inside Stars
- Dynamic Collapses of Radiation Pressure Dominated Stellar Interiors in Progenitors
- Our models allow the embedded core surface or interface of non-zero density.
- Such core density profile can have an oscillatory feature
- GR instabilities in such stellar cores may lead to black holes and neutron stars

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