Contribution ID: 9

Type: not specified

Contribution of many-particle coherent neutrino scattering to core-collapsing supernova explosion

It has been a long standing problem that the available kinetic energy is not sufficient to make a successful explosion in the simulations of core-collapsing supernova explosion. The importance of many effects such as the neutrino heating, stellar rotation, vortex and turbulence, magnetic field, have been extensively studied, but now we are still on the way to perfect understanding. In this talk, a new possible contribution of the coherent neutrino scattering off many particles in the shock wave region will be discussed.

Author: TATSUSHI, Shima

Presenter: TATSUSHI, Shima

Session Classification: Research Talks of "Session 8"