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HIGH ENERGY ACCELERATOR RESEARCH ORGANIZATION
THEORY CENTER

Seminar

The evolutions of massive stars and the importance of neutrino observations (in English)

SPEAKER: Dr. Chinami Kato
(Waseda University)

DATE : June 28th (Thu.) 15:30-

PLACE : Kenkyu Honkan 1F, Meeting Room 1

Massive stars with more than 8 solar mass initially are supposed to be progenitors of core-collapse supernovae, however, there still remain many problems about the understanding of their evolutions and deaths, especially the interior profile of cores and the explosion mechanism. In order to solve these problems, some observations are necessary. Then we focus on the observations of "neutrinos", which are emitted inside the stellar core or proto-neutron stars and decide their evolutionary paths. In this talk, I want to talk about what we can learn about the stellar evolutions from the observations of pre-SN and SN neutrinos and what we should do theoretically for the next galactic supernovae which will occur in the near future. In detail, we calculate the realistic neutrino luminosities and spectra for all flavors and estimate the number of events at the terrestrial neutrino detectors.

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