

PRISMA+ Colloquium

Dec. 6, 2023 at 1 p.m.
Lorentz-Raum, 05-127, Staudingerweg 7

Dr. Haakon Andresen
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Core-collapse Supernova: Current Status and Challenges for the Future

The referent will give a broad overview of current core-collapse supernova theory and highlight important challenges for the future. Currently, numerical simulations produce successful explosion, but this is only the first required step in order to understand the role of core-collapse supernovae in the wider astrophysical and cosmological picture. He will discuss the underlying uncertainties in the input physics, such as neutrino transport and stellar evolution. The referent will also summarize the current predictions for the gravitational waves and neutrino signals expected from core-collapse supernovae.