

The evolution low metallicity of very massive single stars

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Very massive stars (VMS) just like massive stars, have great impact on their environment and cosmic evolution. Low metallicity VMS models are highly sensitive to rotation, while the evolution of higher metallicity models is dominated by mass loss effects. In this talk, I will explore the impact of low metallicity VMS models using GENEC and how does their evolution and their predicted fate will provide us more understanding in the formation of the universe. We also explore the possibility if we could able to predict the VMS will die either as pair instability supernovae or just directly collapse as black hole.

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