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Mass loss at very low metallicity: impacts on nucleosynthesis and GRB progenitors

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Massive stars with no or very little amount of metals are generally considered as having very weak stellar winds. We reconsider here this question through stellar models accounting for the effects of axial rotation and show that rotating models of massive stars might lose a significant fraction of their initial mass through mass loss. The physical mechanisms triggering these mass losses and the chemical composition of the stellar winds will be discussed. Consequences of these models for nucleosynthesis and the nature of the GRB progenitors will be presented.

Author: MEYNET, Georges (Geneva Observatory)

Co-authors: Prof. MAEDER, André (Geneva Observatory); Mrs SYLVIA, Ekstrom (Geneva Observatory)

Presenter: MEYNET, Georges (Geneva Observatory)

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