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On the origin and composition of Galactic cosmic rays

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I explore the implications of a model in which cosmic rays are accelerated by the forward shocks of supernovae exploding within massive star winds, by using realistic stellar models with mass loss and rotation. Using the same models, I also show that the idea that the bulk of Galactic cosmic rays are accelerated in superbubbles fails to reproduce the key observable of GCR composition, namely the Ne22/Ne20 ratio.

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Classification de Session: Massive stars and cosmic-ray sources