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Determining nucleosynthesis yields in supernovae from spectral modelling

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Supernovae are the main production factories of the elements in the Universe. Elements are created both during the hydrostatic burning phases of the progenitor star, and in the explosion. For many decades this framework has relied solely on theoretical predictions, but lately spectral synthesis models as well as improved supernova data availability has allowed direct abundance measurements. I review the picture we have today on supernova nucleosynthesis from spectral analysis, and implications for our understanding of both supernovae and the origin of the elements.

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