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Formation of the Heaviest Elements: Necessary Conditions, Astrophysical Sites, Nuclear Input

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We give a short review on necessary conditions in order to achieve a sufficient neutron/seed ratio for an r-process to occur, what are the candidate astrophysical sites to fulfill such conditions (supernovae, magnetar-forming supernovae, quark (super-)novae, neutron star mergers,...), what is their role in the chemical evolution of galaxies, and whether there existed a chance to produce superheavy elements in nature.

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