Star Formation in an Iron Corset

We note that the observation of iron abundance in clusters of galaxies should set constraints on the star formation rate since the iron abundance must be consistent with the supernovae rate. To this end we have calculated the expected yield of iron in a supernova to be $0.005 M_{\odot}$ per solar mass of progenitor star.

G. C. Stewart and B. E. G. Pagel