

Theoretical Fits for Barium Stars

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Stellar evolution and Neutron sources during the Asymptotic Giant Branch phase are presented. AGB predictions for all heavy elements within a large range of ^{13}C -pocket efficiencies, for stars of about solar metallicity are considered, and compared with a number of spectroscopic observations of barium stars. Agreements and discrepancies between theoretical predictions and observed abundances of the chemical elements are discussed.